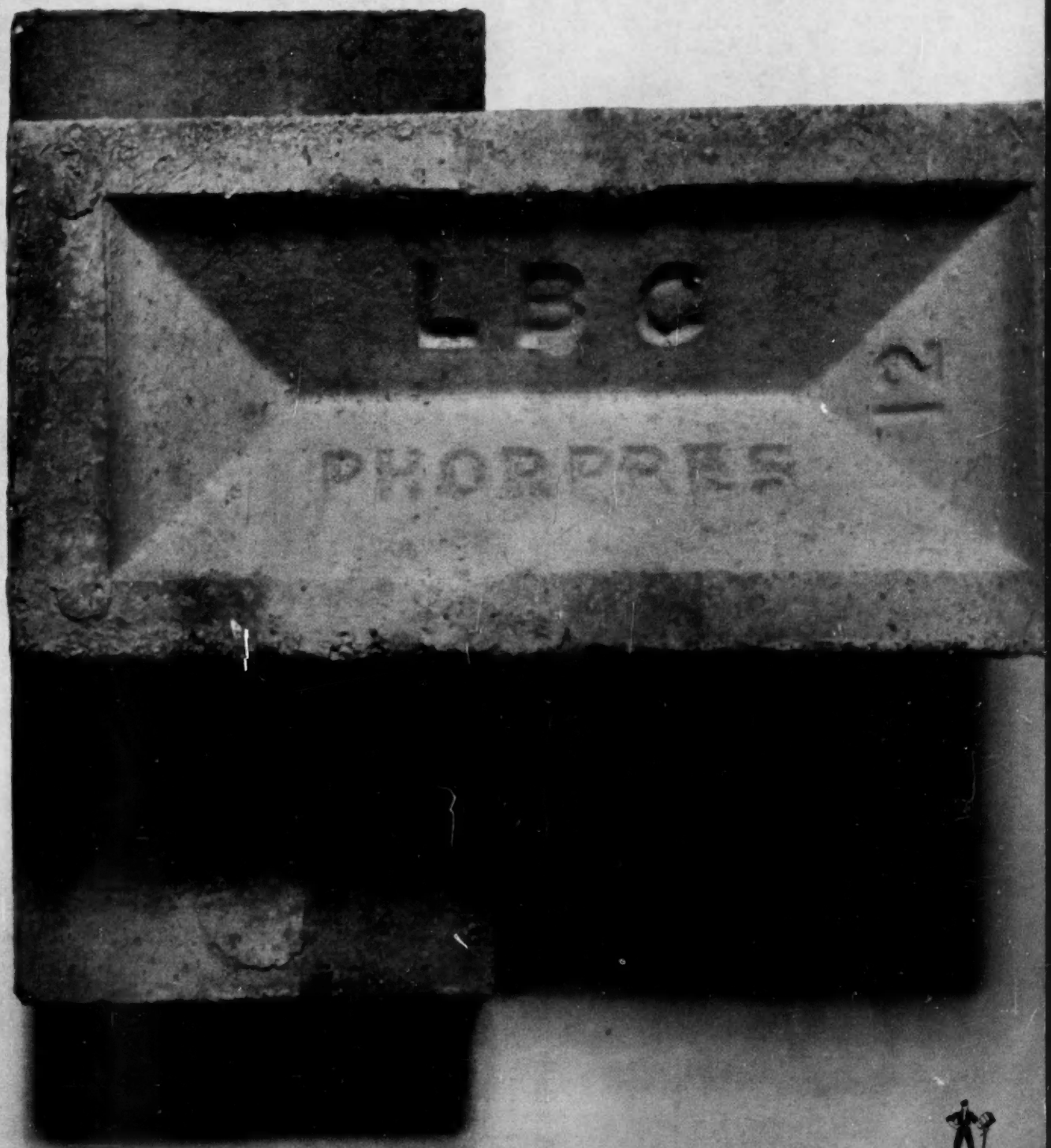
BY APPOINTMENT
TO HER MAJESTY QUEEN ELIZABETH II
BRICK MAKERS
LONDON BRICK COMPANY LIMITED

# The Builder

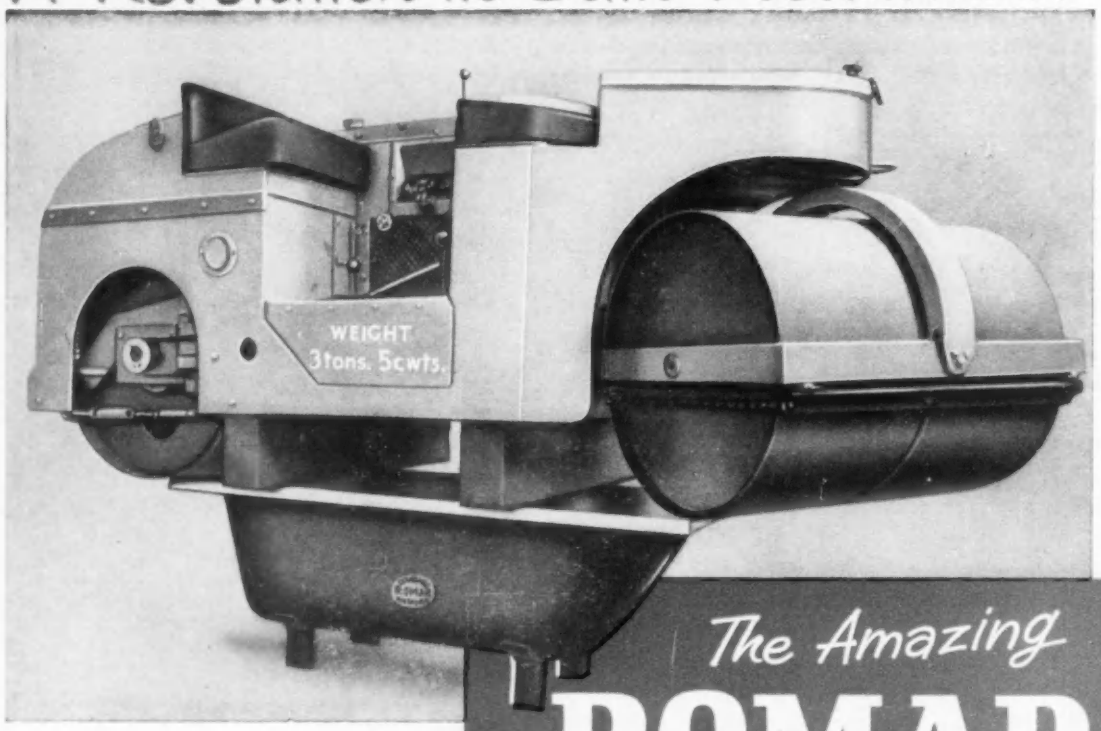
A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6155 119TH YEAR. FRIDAY, MAY 5, 1961. Price 1/6.




**LONDON BRICK COMPANY LIMITED** in the service of the building industry PHORPRES

# A Revolution in Bath Production!




## The Amazing ROMAR pressed steel bath (IMPORTED)

This test proves the amazing strength and stability of the **ROMAR**

### FOR ECONOMY IN PRICE and WEIGHT

*(Weighs only 88 lbs.)*

The Romar bath is seamless drawn in one piece from specially selected high grade steel. The porcelain enamel finish is of acid-resisting quality which is normally chargeable as an 'extra' on Cast Iron baths

- *Available in three sizes: 5'0", 5'3" and 5'7" overall.*
- *One-third the weight of cast iron, 70, 77 and 78 lbs. respectively.*
- *Suitable for pillar valves in the normal or corner positions.*

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*Accredited Stockists & Distributors for South-East England.*

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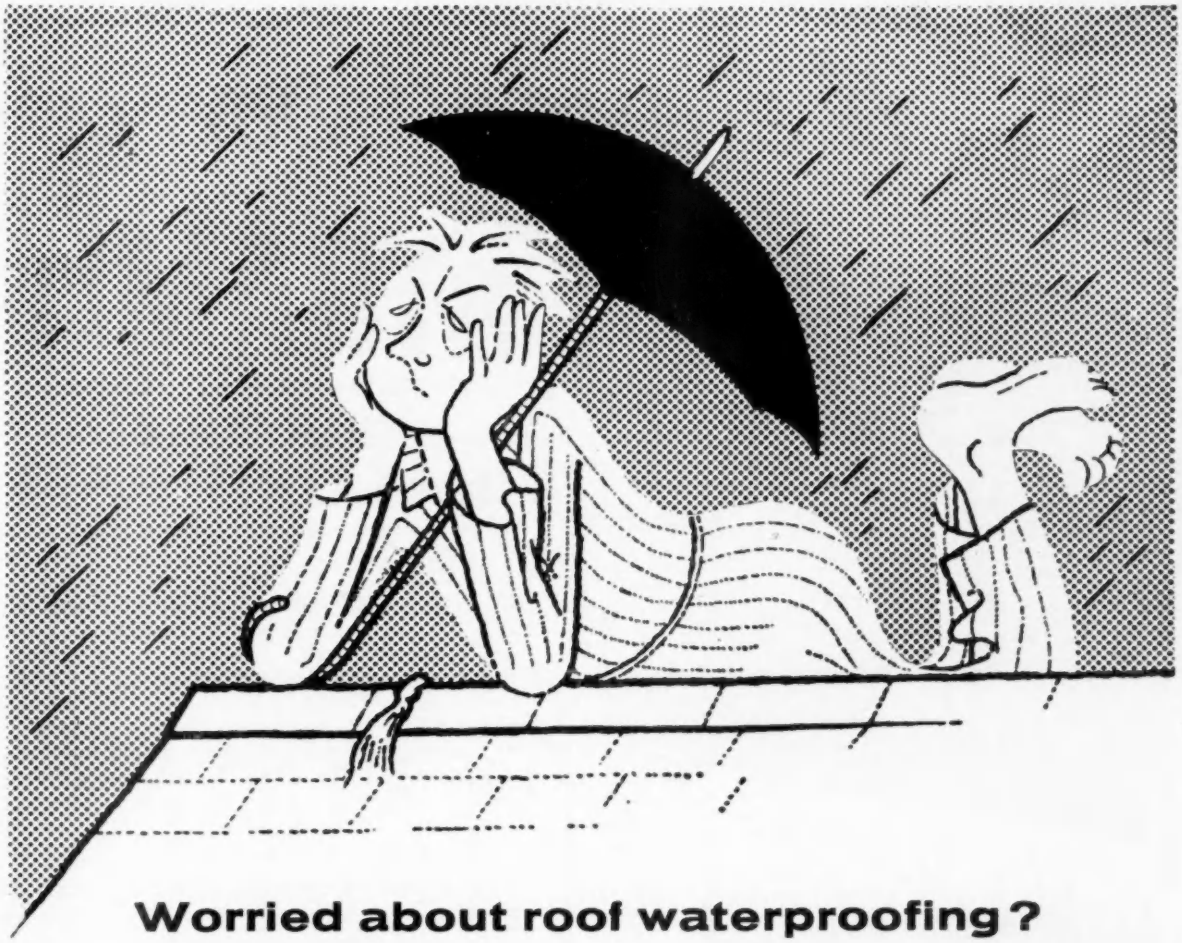

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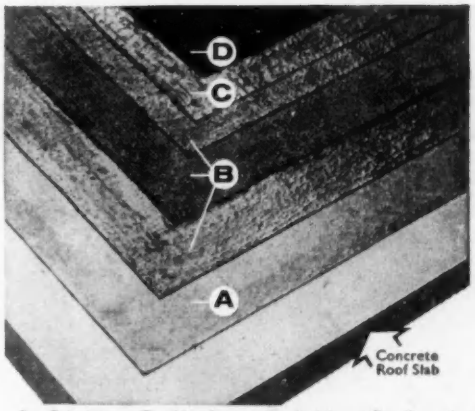
the EVODE

## BUILT UP ROOFING SYSTEM
*can be applied to any roof*

Any roof can be treated ✳ Permanent waterproofing for large or small roofs ✳ Applied cold without preliminary treatment ✳ Used and proved for over 25 years ✳ Foreman demonstrators are available to assist your own workpeople or, if you prefer, our contracts department can undertake the work for you and provide free maintenance.

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**STRUCTURAL**
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## *for solid or semi-glazed dry-construction partitioning?*

**They are truly economical, strong and durable. They provide excellent thermal and sound insulation. They accept paint and decoration direct. They resist fire. They are quickly and easily erected in timber framing or in aluminium extrusions. They can be tailored to suit the contours of the ceiling.**

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**STOCK SIZES: 4ft. wide by 6, 8, 9, 10 and 12ft. long.**
**Special sizes made to order.**

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*These attractive rooms are partitioned with Stramit slabs, decorated with wallpaper. They are part of the offices of Nusound Recording Studios, Thornton Heath.*

***Send for details of this unique dry-construction material NOW***

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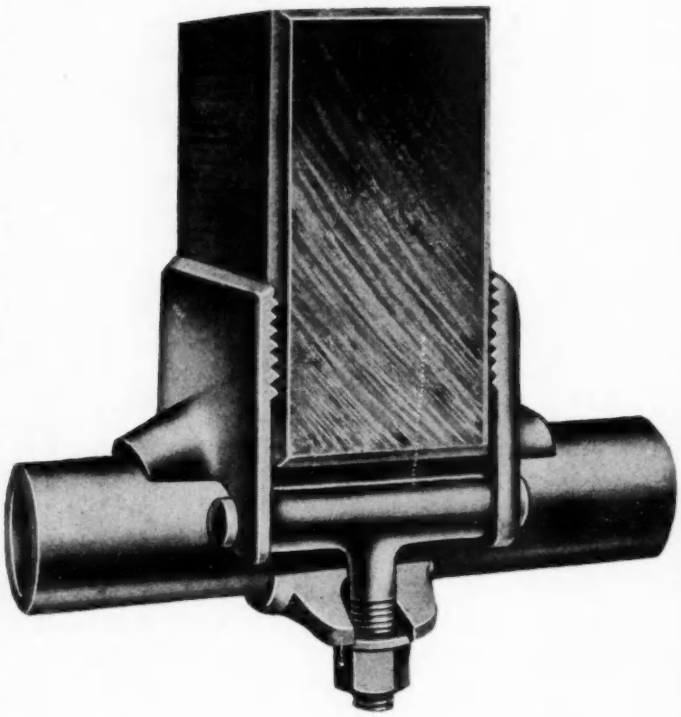
THIS USEFUL DROPFORGED STEEL FITTING IS EXCLUSIVE TO BURTON'S PATENT TUBULAR SCAFFOLDING SYSTEM; IT IS THE ONLY FITTING WHICH SECURELY FIXES TIMBER TO TUBULAR STRUCTURES WITHOUT THE USE OF NAILS, SCREWS, Etc. ITS ACTION IS SIMILAR TO THAT OF A CARPENTER'S VICE—THE SERRATED JAWS FIRMLY GRIPPING THE TIMBER SECTION AS THE ONE NUT ONLY IS TIGHTENED. APART FROM ITS UNIVERSAL USE IN FILM AND T.V. STUDIOS, ITS MANY APPLICATIONS TO REINFORCED CONCRETE WORK—TEMPORARY ROOFS—HOARDINGS, Etc., Etc., WILL READILY BE APPRECIATED. IT IS DESIGNED FOR USE WITH 1.29/32" O.D. STEEL SCAFFOLDING TUBING TO B.S.S. 1139-1951. AND IS MADE TO FIT STANDARD SIZE RAFTERS, Viz.: 2" THICK AND 4" THICK TIMBER.



Regd. Design No. 829333

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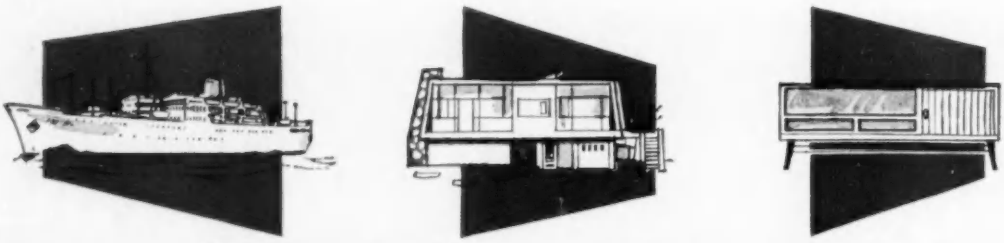
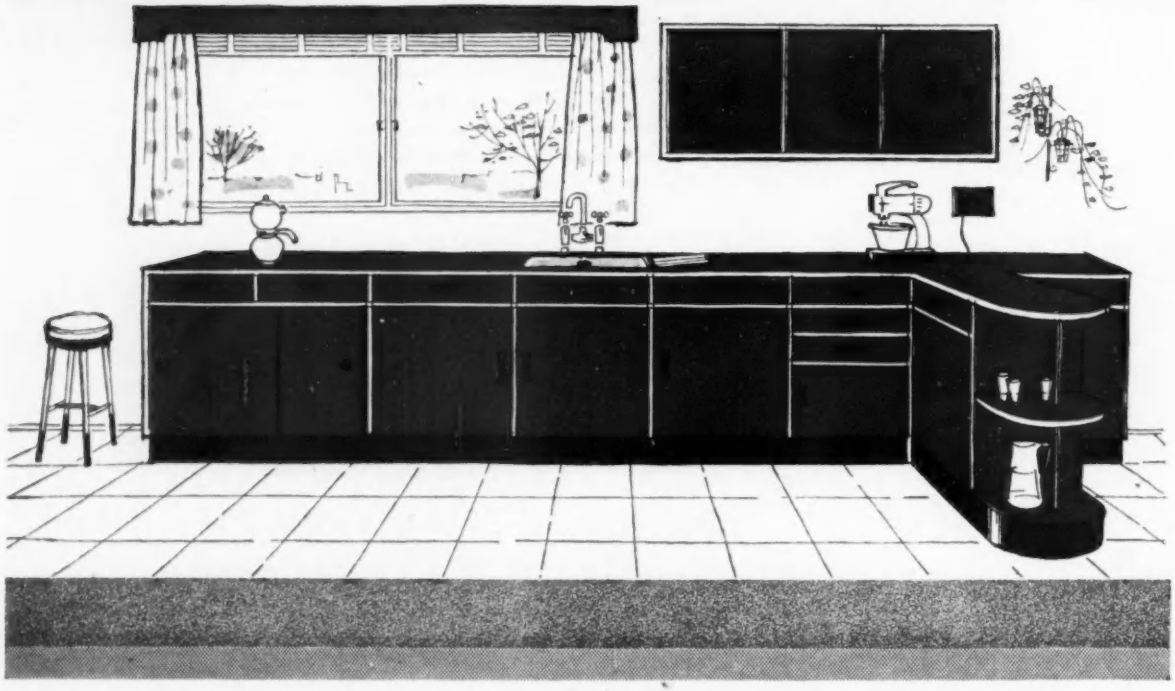


# Swedish PERSTORP provides a lifetime of colourful, washable surfaces in ships, houses, restaurants, flats, offices, foyers, and for every kind of good contemporary furniture



Swedish Perstorp wins out particularly on **colour** . . . contemporary, blending happily into any design scheme . . . and a finish that is not too glossy, not too matt. Durable, washable, heat and grease resistant, Swedish Perstorp is specified for everything from railway carriage panelling to vertical and horizontal surfaces in offices and flats. Swedish Perstorp the least expensive of the better plastic laminates. For more facts about this remarkably fine laminated plastic get in touch, now, with your nearest Swedish Perstorp distributor.

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**BUILDER** "Do you know, this is the best cement colouring compound I have ever used?"

**ARCHITECT** "Which confirms that if the colouring agent complies with British Standard, it must be good."

**BUILDER** "And yet, to get this strong brick-red shade, I am only using 3 lbs. of this Febtone colouring compound per cwt. of cement."

**ARCHITECT** "Yes, what a difference to the colouring compound I previously specified. That needed 10 lbs. per cwt. of cement to form the same shade."

**BUILDER** "Ah! but the colouring agent in that compound didn't conform with British Standard 1014-1942 Type A."

**ARCHITECT** "Yes, there's the difference. To conform with British Standard, the cement colouring material must be free from impurities and extenders."

**BUILDER** "Which gives the answer—the colouring matter of Febtone is obviously pure, unadulterated pigment and so a little goes a long way."

**ARCHITECT** "Which makes you wonder what is in some of the other cement colouring compounds."

**BUILDER** "Well, there's no wondering with Febtone and in addition, the product also hardens and plasticises which is a great help to the Builder."

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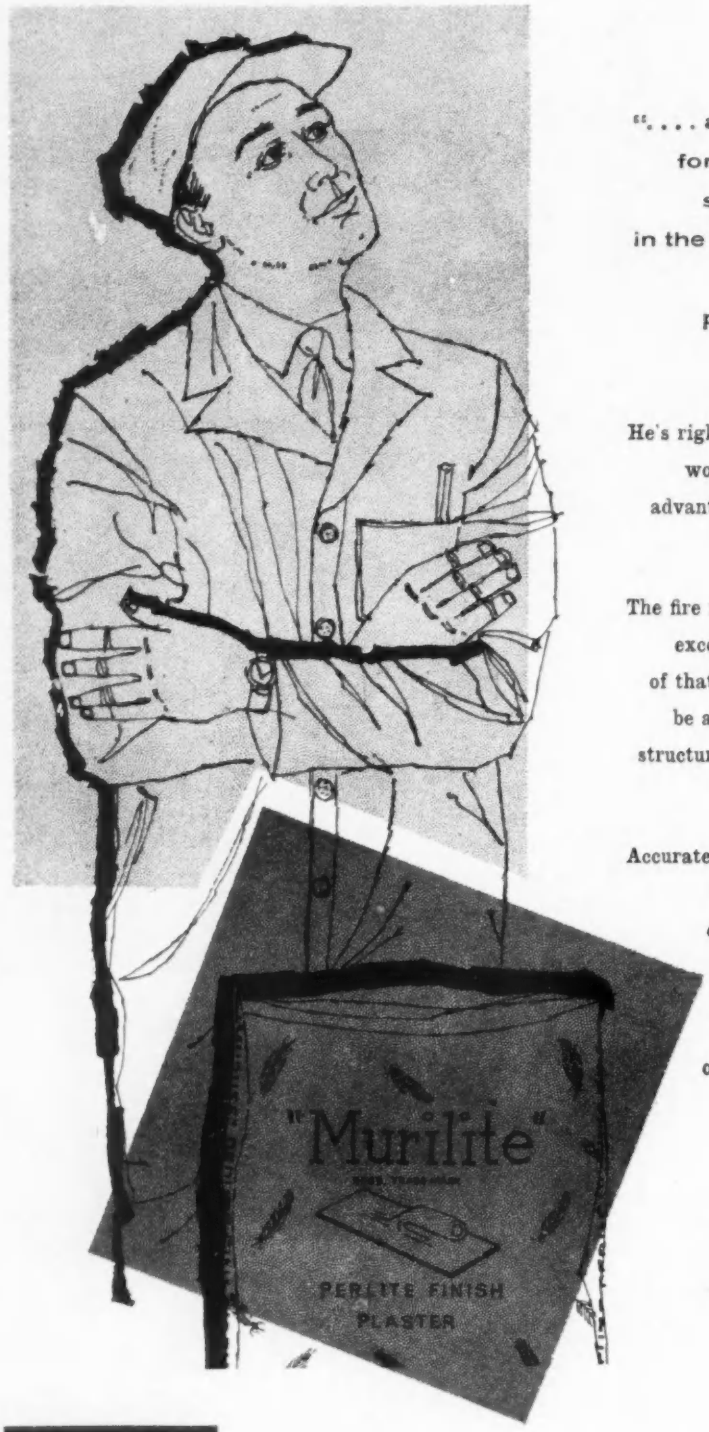


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He's right too. 'MURILITE' Plaster has first-class working properties, but it also has many other advantages to offer architects and the occupants of a building.

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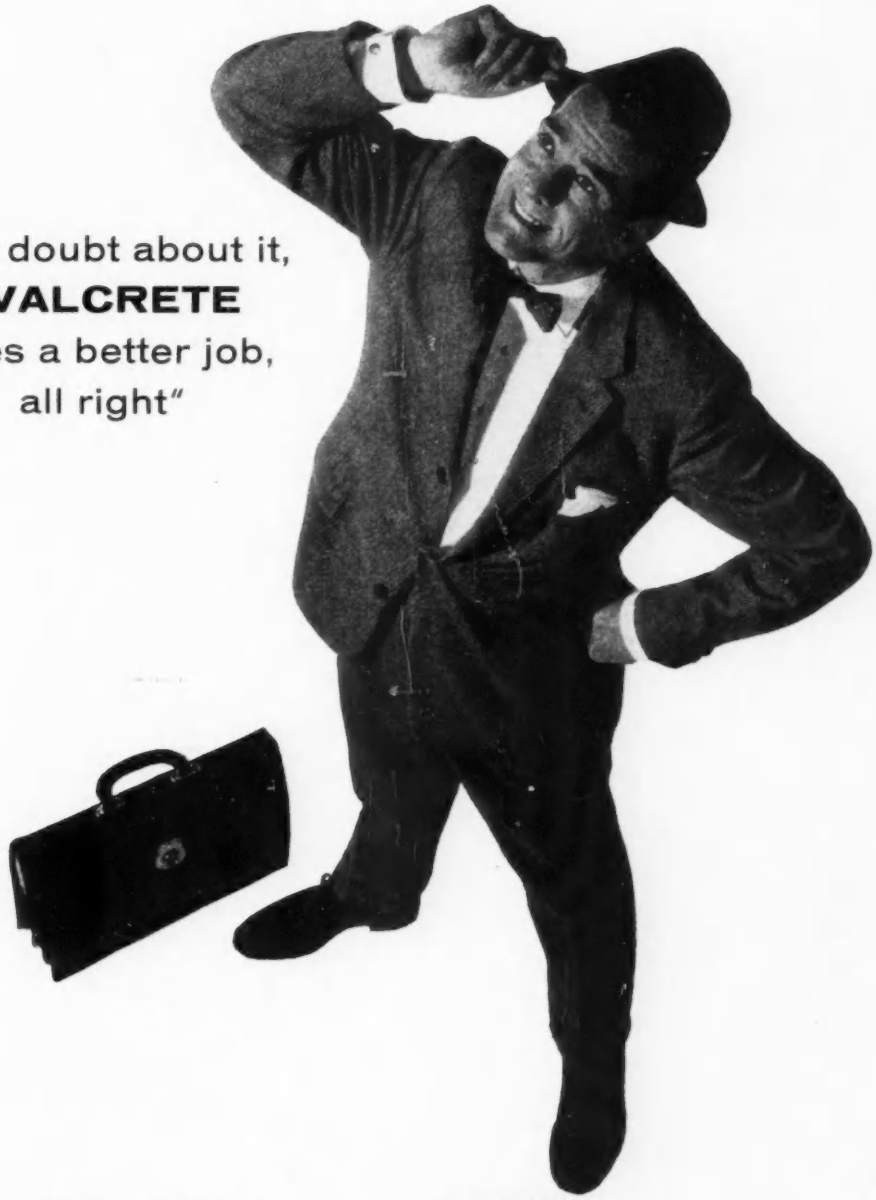
Gypsum Plaster and Cement

C/5



"No doubt about it,
**WALCRETE**
does a better job,
all right"

"Its built-in qualities eliminate all the uncertainties of the human element **and** the expense of adding plasticisers on site, for Walcrete mortar spreads naturally like butter.
C.M.C. Technical Service will always advise me as to my gauging, for Walcrete makes the most of any sand. That's what I like about Blue Circle—you get service from start to finish."

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*Walcrete is made under rigid laboratory control to Blue Circle standards. The materials used in its composition are accurately proportioned and intimately mixed during manufacture.*

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**THE CISTERN** Clean and contemporary, made of black Duranite (or Keramic ware in a choice of colours) and fitted with flush-at-a-touch mechanism—quiet, powerful and unfailing.

**THE WASH-DOWN PAN** Available in white Keramic ware (or coloured to match cistern). 'Hydromatic Action' system of ducts and channels directs water to the right places for controlled maximum efficiency. Trap to BSS 1213 dimension eliminates risk of blockage.

**THE SEAT** Shires famous 'Continental'. Slim, strong, flexible—no buffers. Cover available in choice of ten colours.

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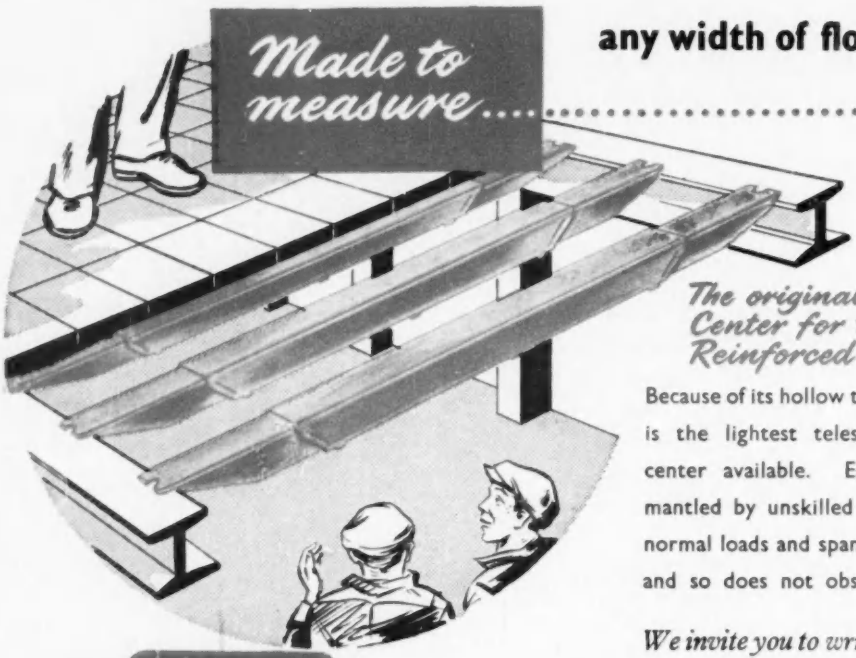


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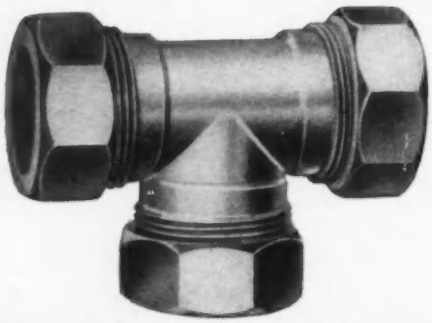

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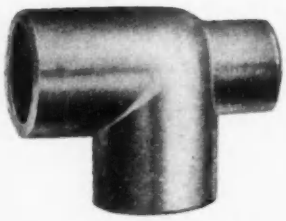

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500 bored sheet piles
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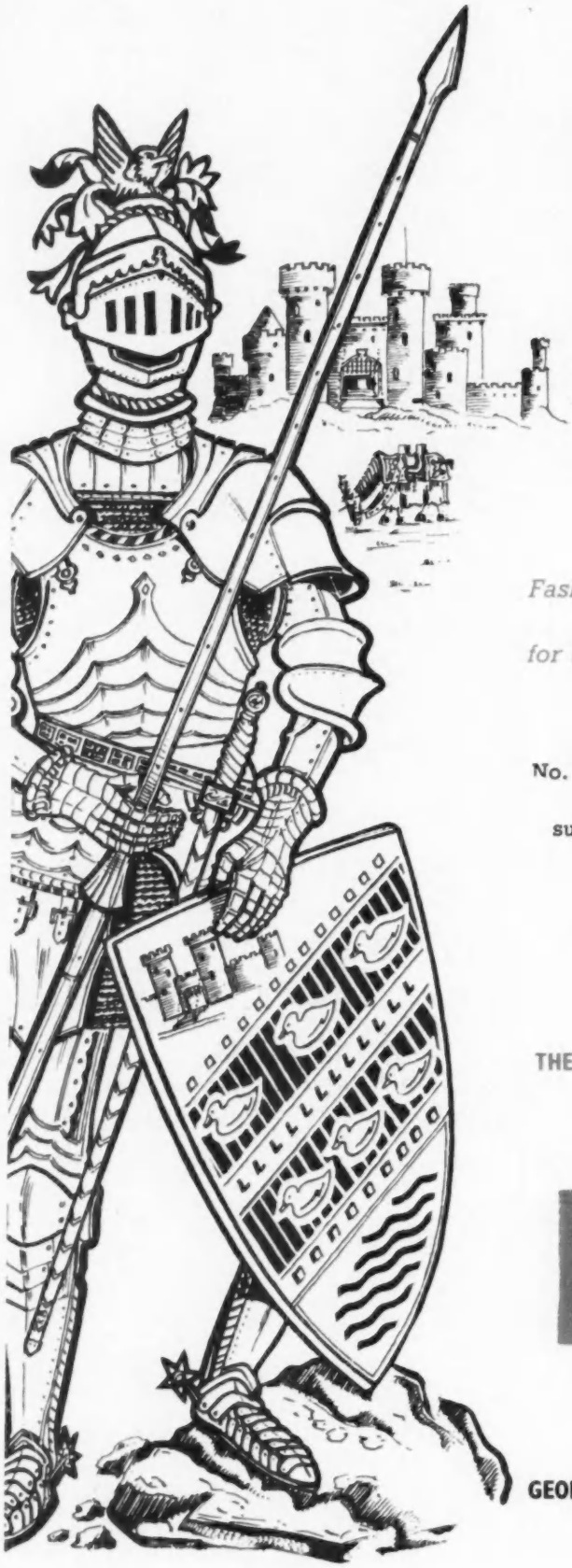
Cementation



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**direct supply**

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Constant hot water for the small to medium size house or bungalow.
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Hot water storage tank 30-35 gallons.
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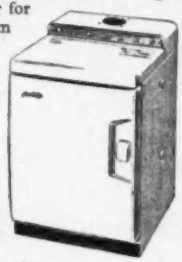

**For solid fuel**—domestic boilers for thermostatic or manual control.

## CENTRAL HEATING
**& indirect domestic hot water supply**

**The Crane Cavendish** for solid fuel.
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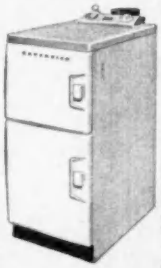
Clean — elegant — choice of colours.
Thermostatic control and built-in thermometer.
Shaking grate—dust-sealed ash pan.
In three sizes from 33,000 to 61,000 B.t.u. per hour.
Price from **£44**



**Carlton Boilers** for rating up to 136,000 B.t.u. per hour.
*Both boilers also available for oil burning.

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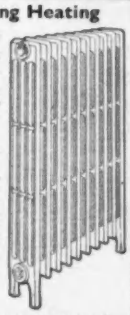
Crane Pall Mall and Crane Hospital Pattern radiators are found in central heating systems all over the country in every kind of building.
*(The illustration is of a 4 column Pall Mall type.)*
Skirting Heating Panels, of cast iron for strength, are either of the Radiant or of the Radiant/Convector type. Inconspicuous — no hot spots—no cold spots. Easy to install.



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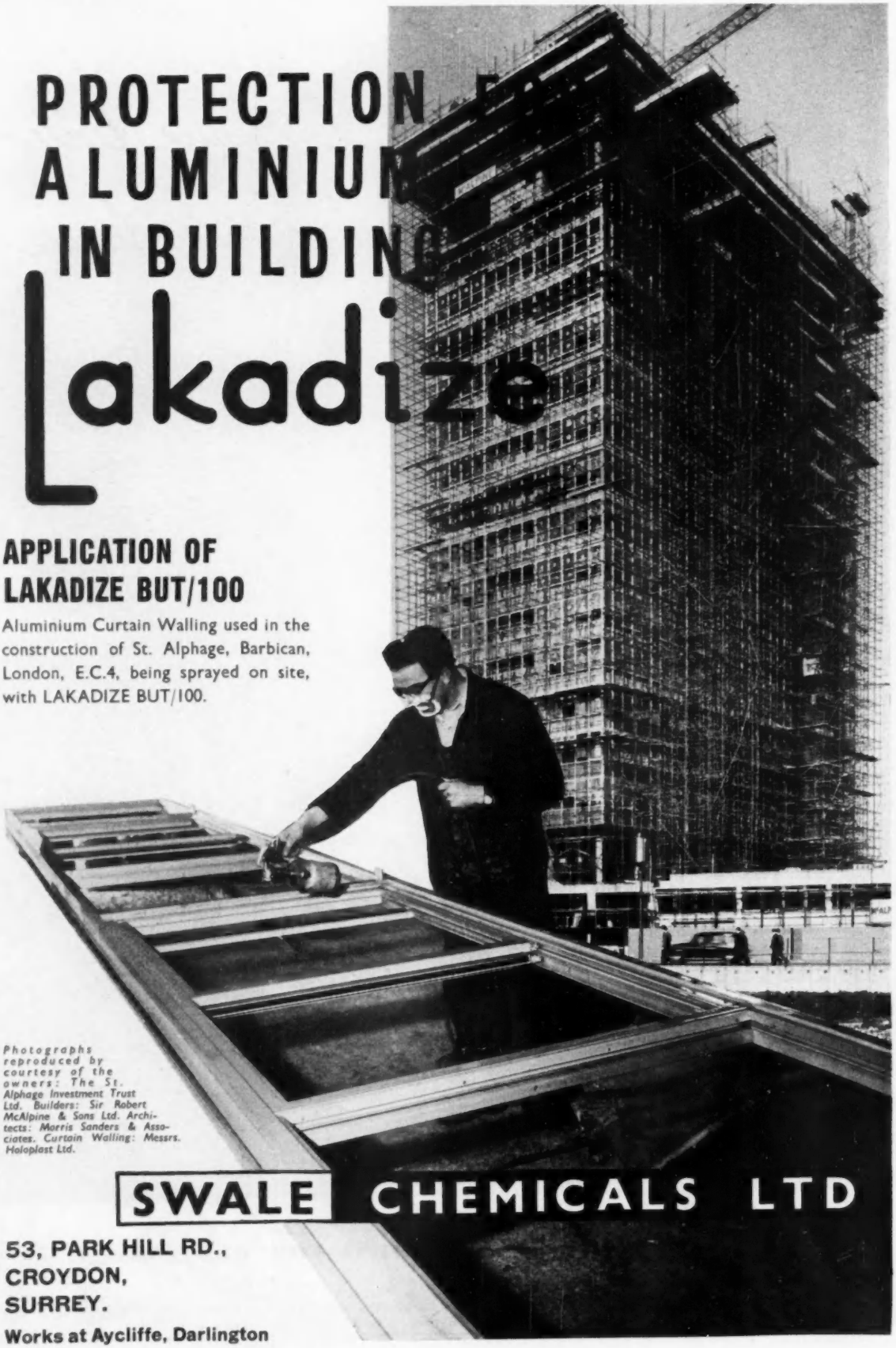
Aluminium Curtain Walling used in the construction of St. Alphage, Barbican, London, E.C.4, being sprayed on site, with LAKADIZE BUT/100.



*Photographs reproduced by courtesy of the owners: The St. Alphage Investment Trust Ltd. Builders: Sir Robert McAlpine & Sons Ltd. Architects: Morris Sanders & Associates. Curtain Walling: Messrs. Holoplast Ltd.*

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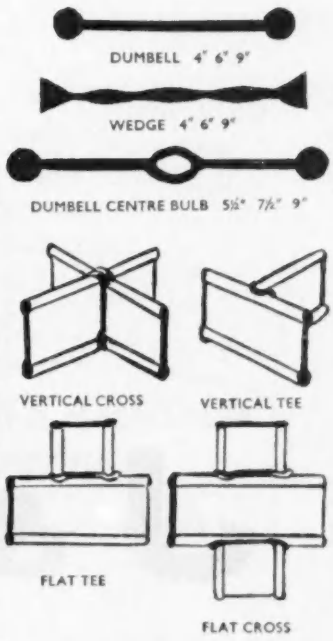
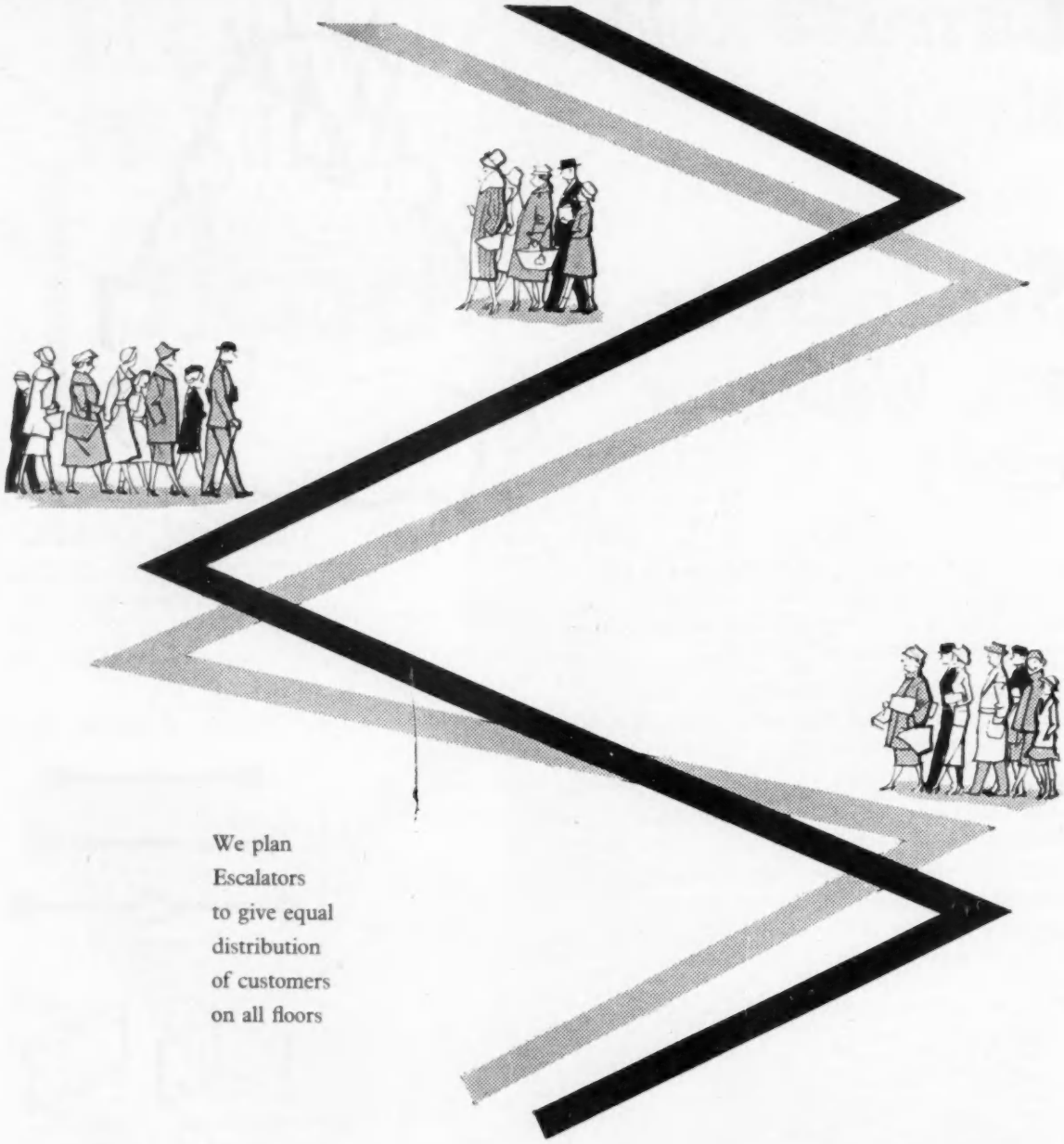


# escalators



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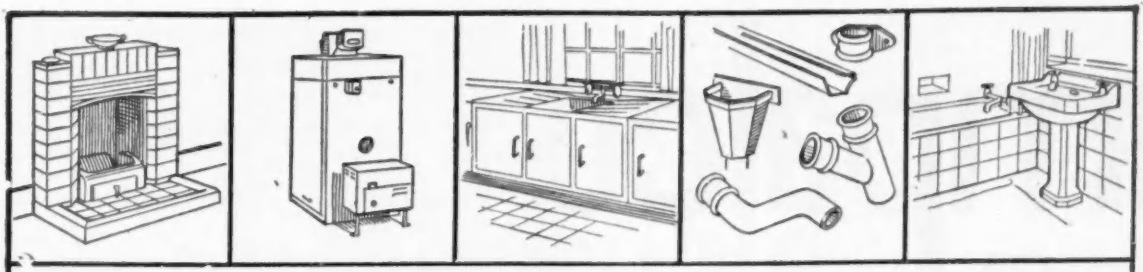

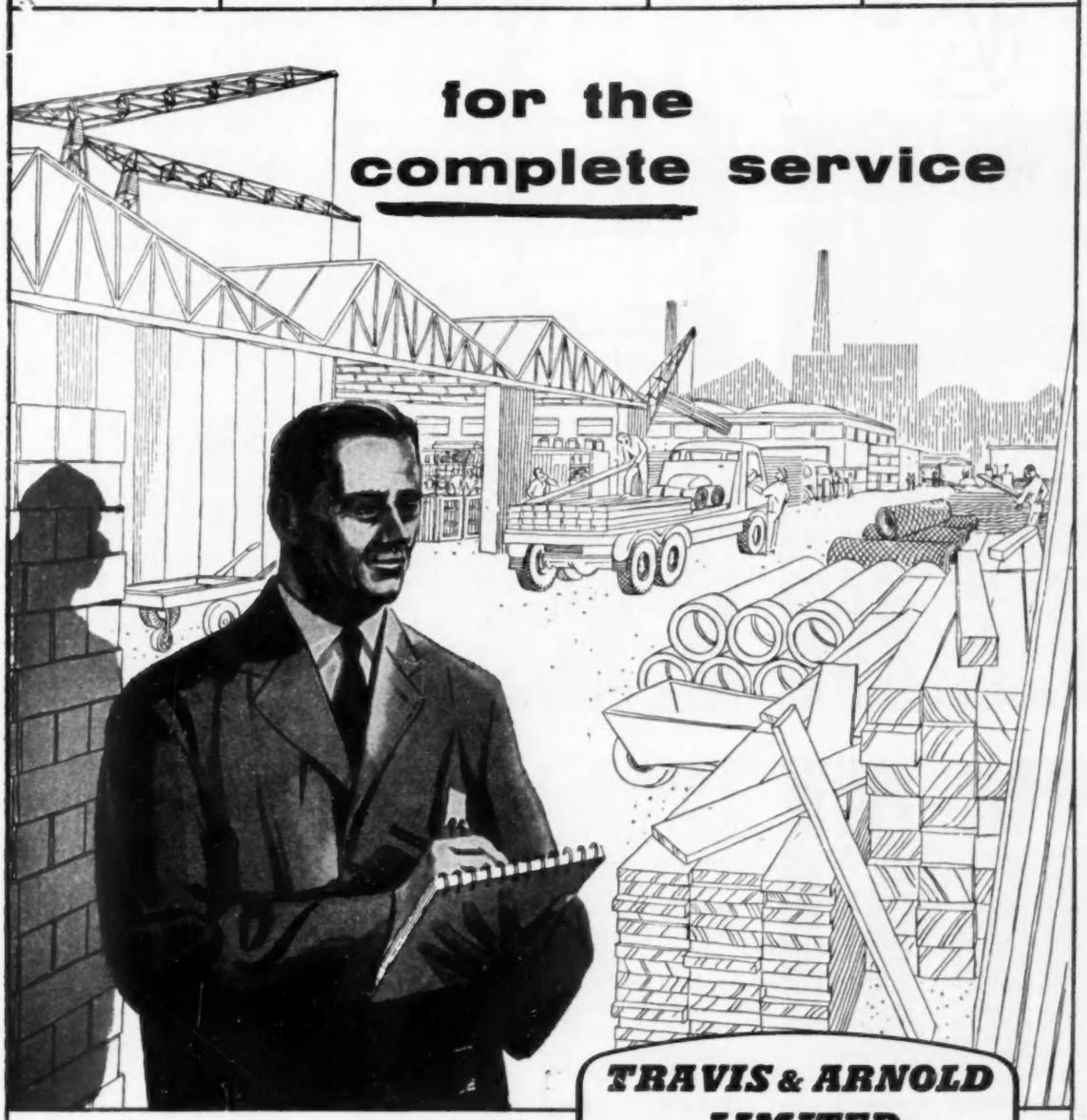


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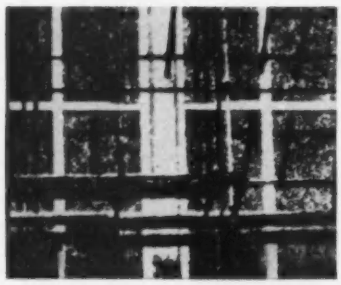
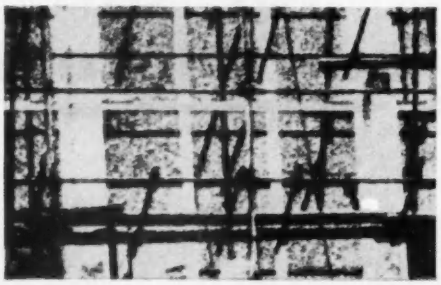

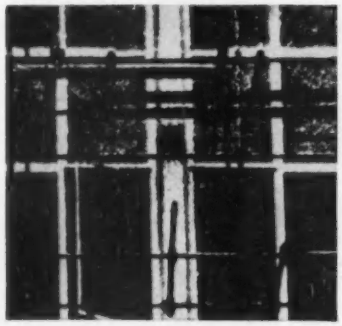
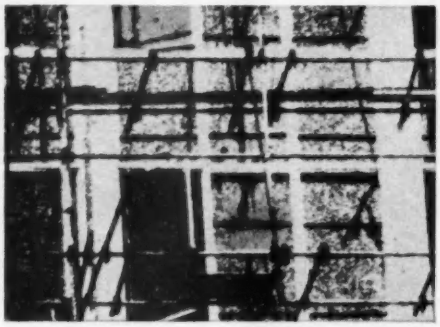
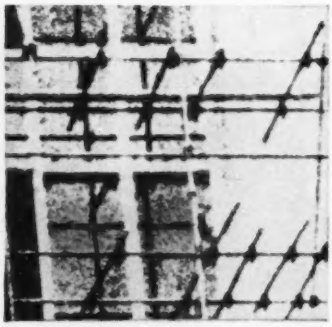
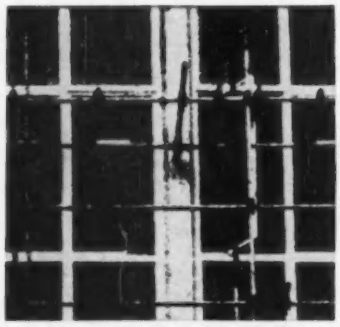

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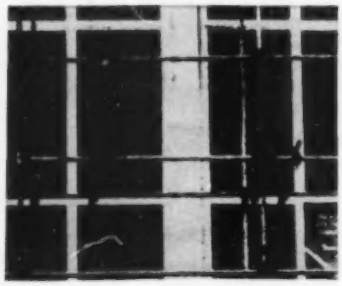
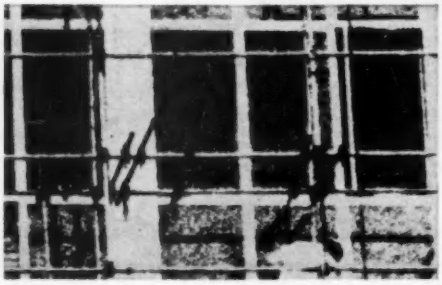
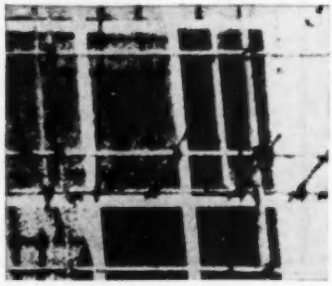

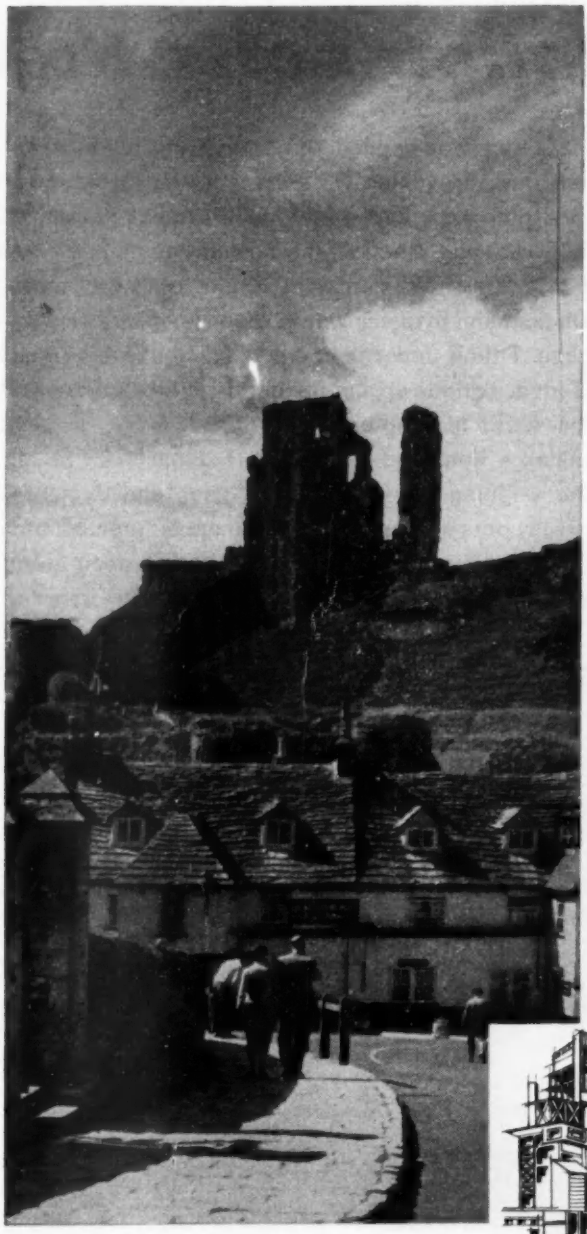

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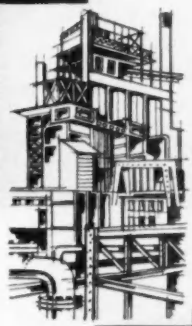

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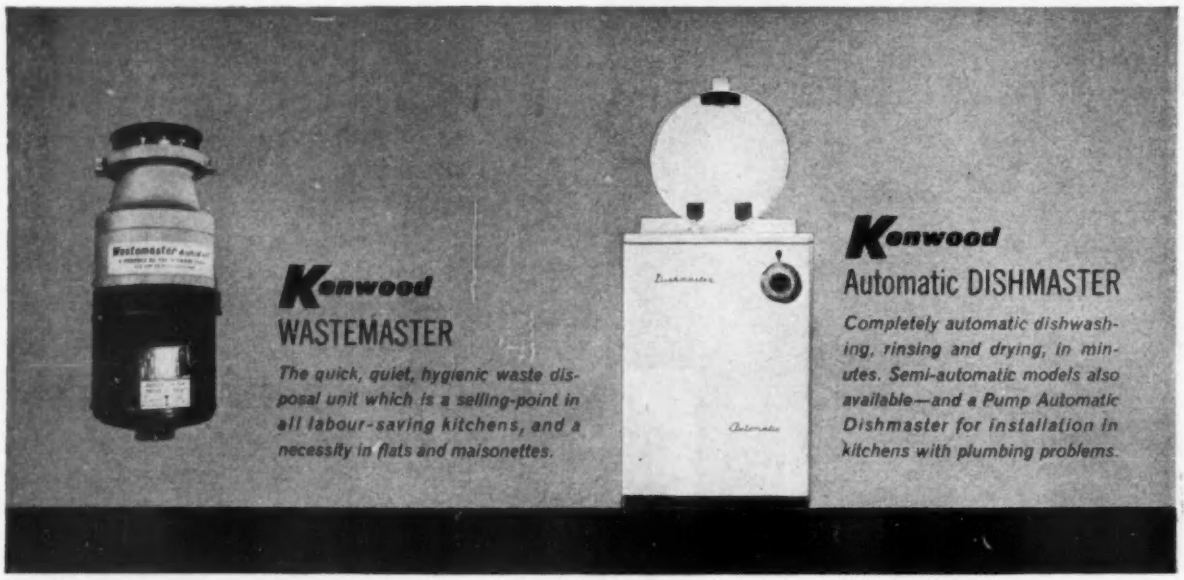


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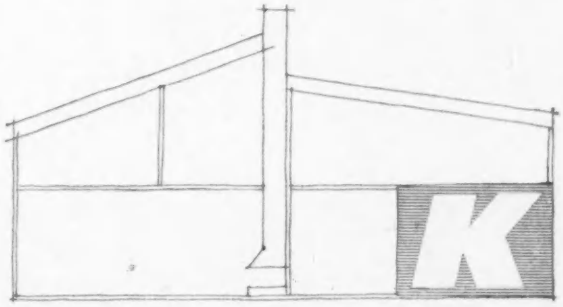

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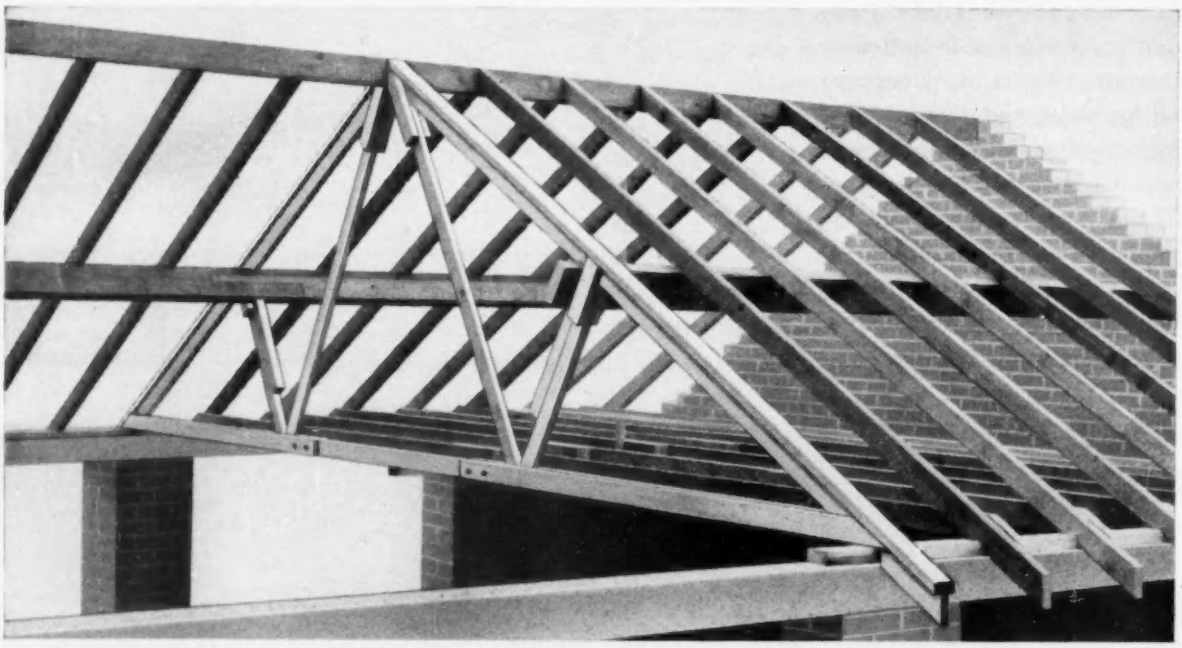

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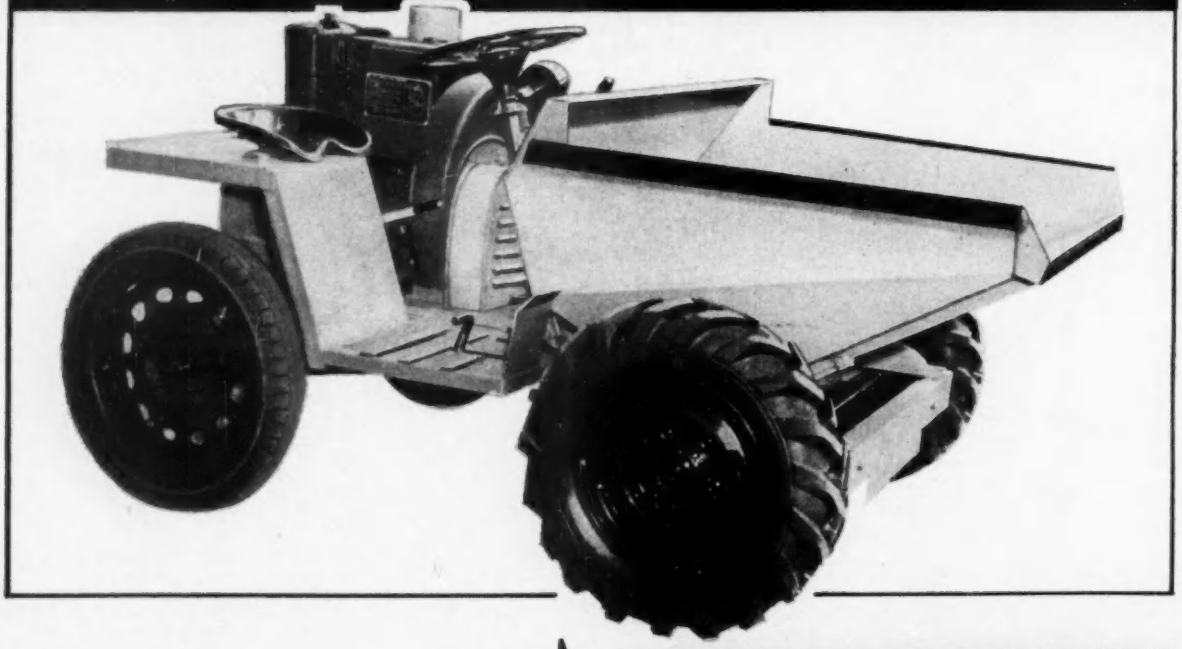

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# Planned plumbing

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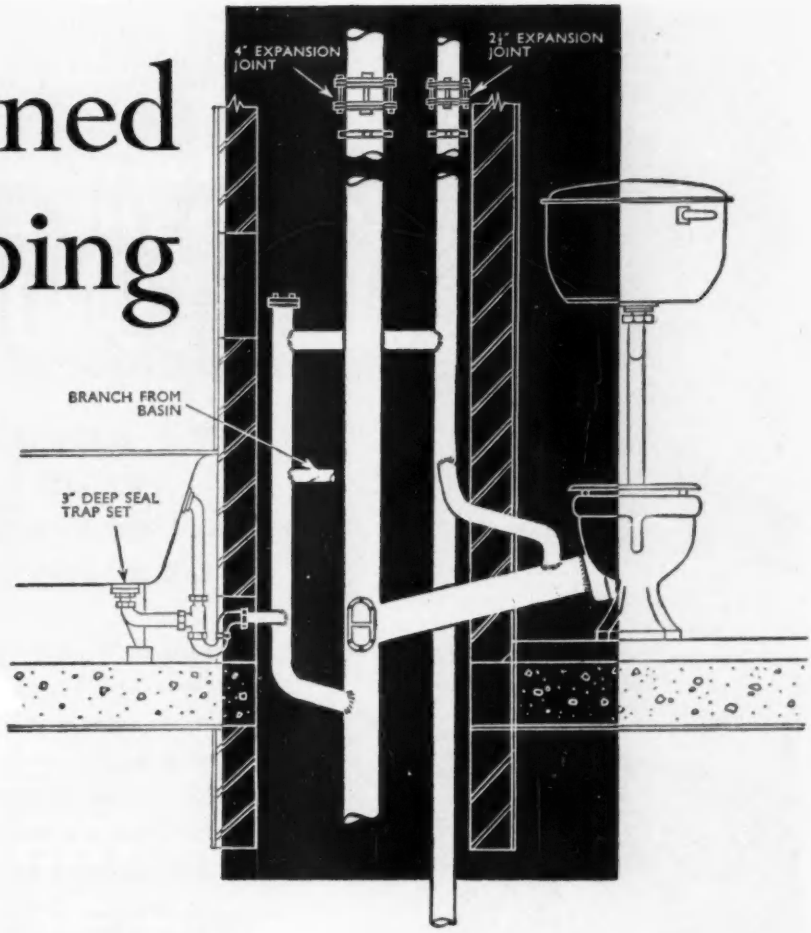


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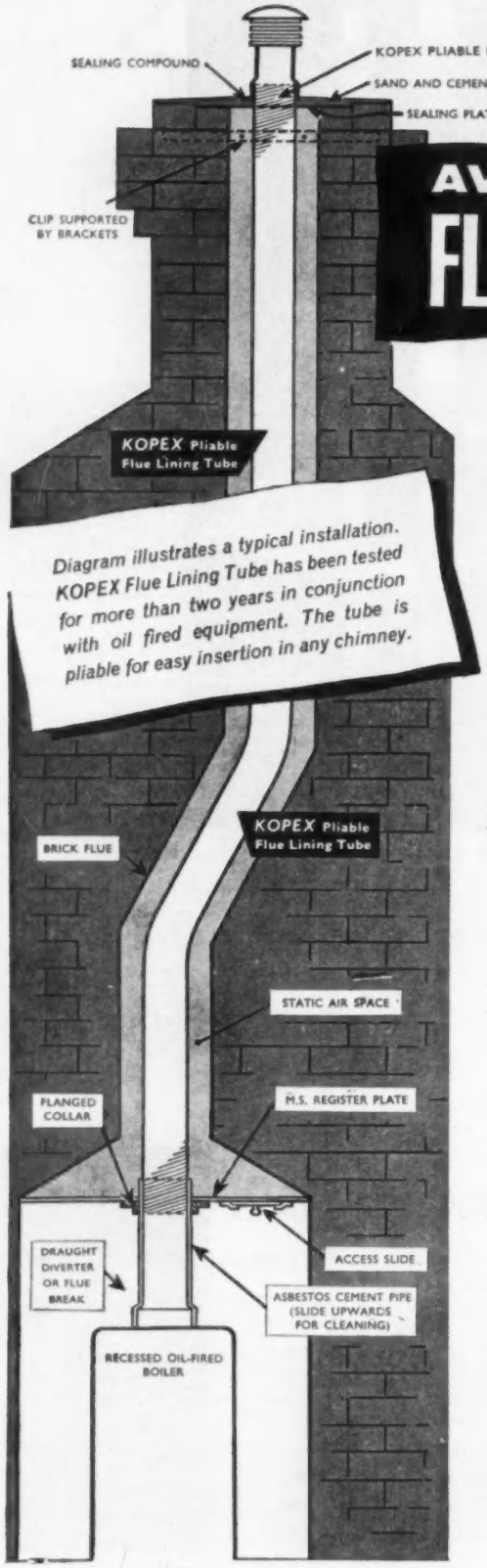


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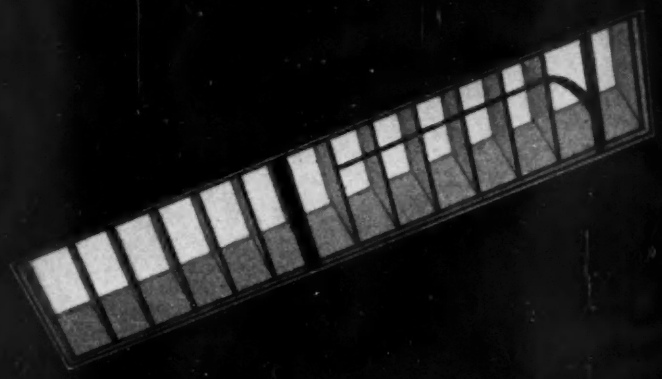

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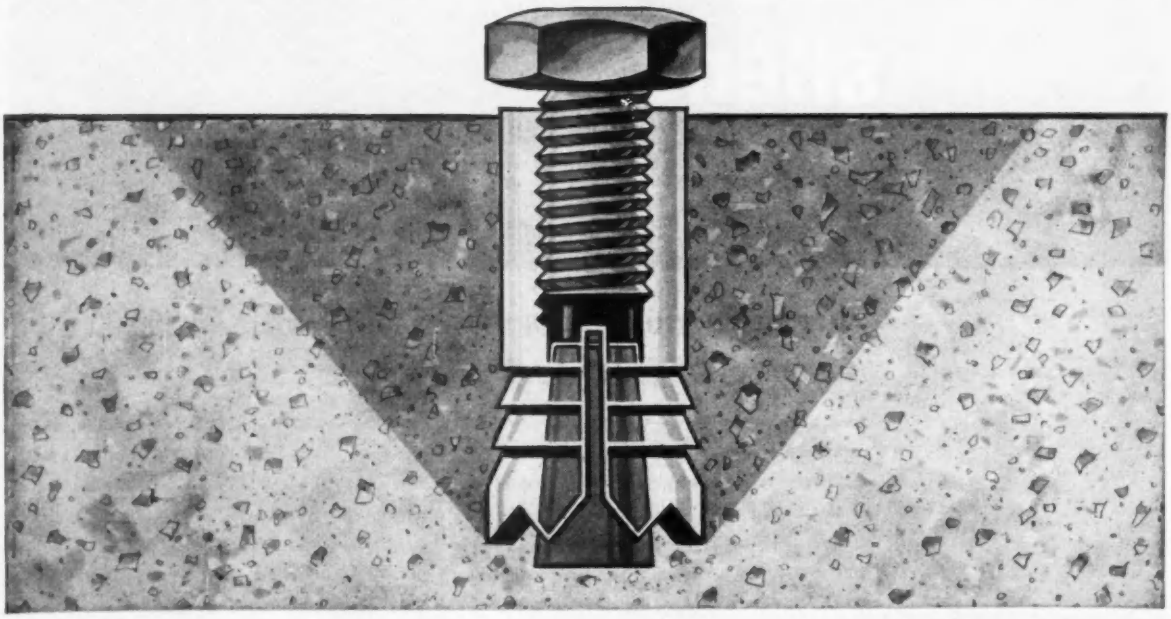

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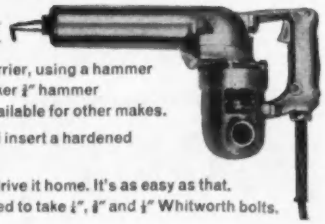

1 You drill the hole with the Terrier, using a hammer drill such as the Black & Decker ¾" hammer illustrated here. Adaptors available for other makes.

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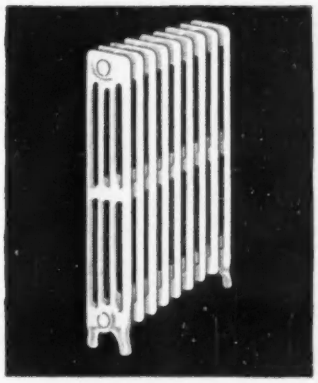
## NEO-CLASSIC RADIATORS



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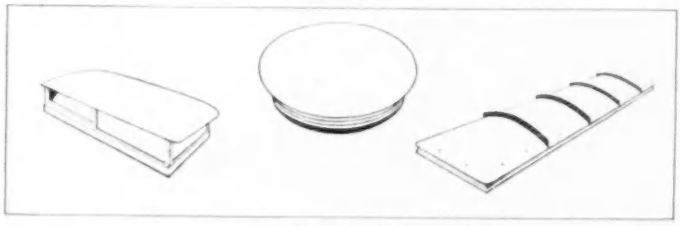

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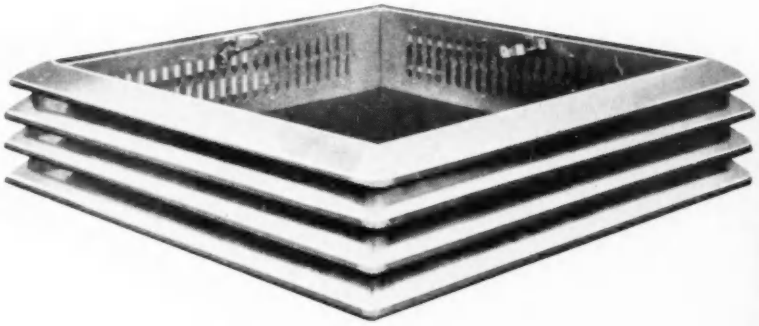

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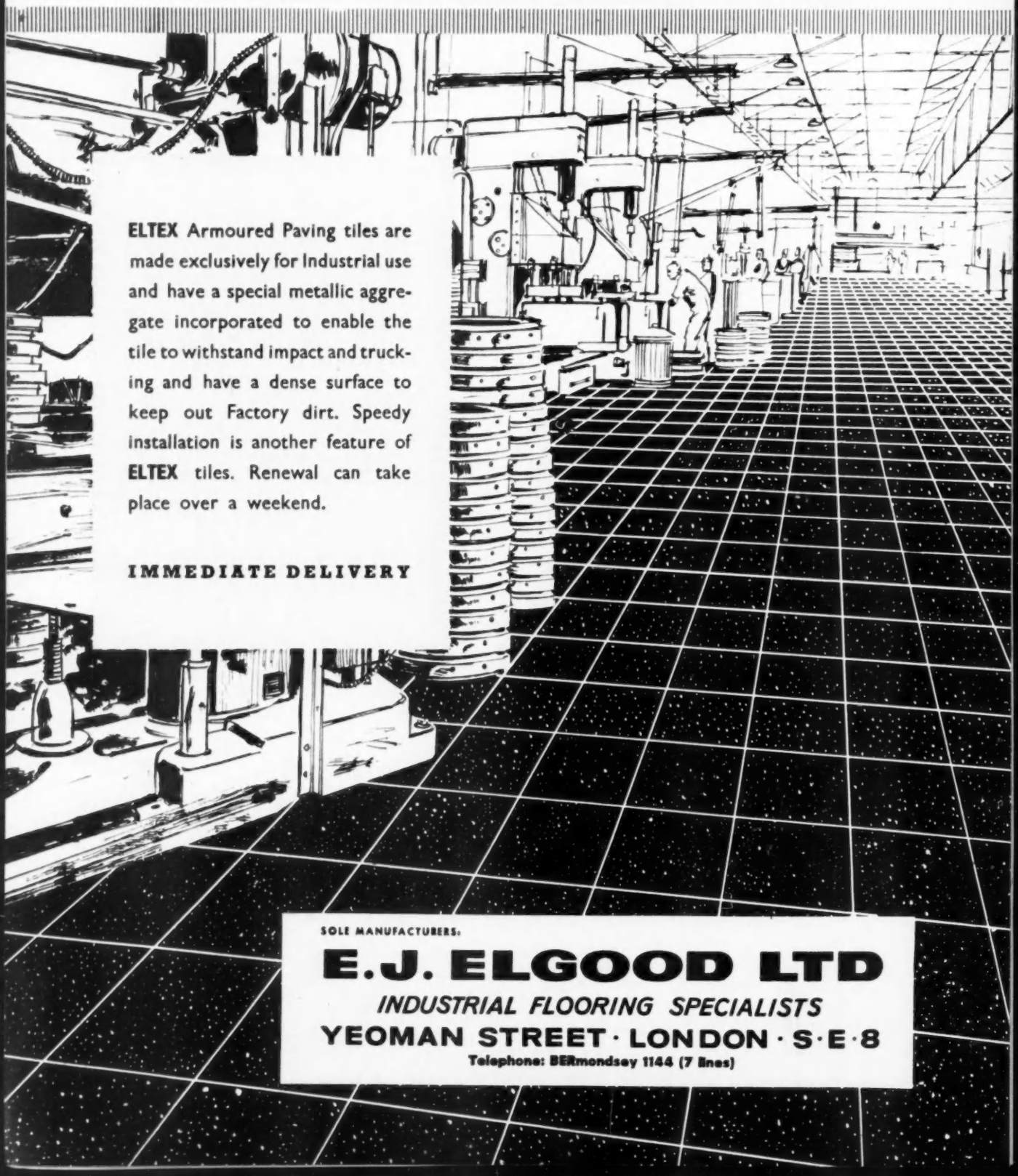

**ELTEX** Armoured Paving tiles are made exclusively for Industrial use and have a special metallic aggregate incorporated to enable the tile to withstand impact and trucking and have a dense surface to keep out Factory dirt. Speedy installation is another feature of **ELTEX** tiles. Renewal can take place over a weekend.

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. . . for the Main Entrance, Faculty of Engineering. A bold, original use of line and colour forms this dynamic mural symbolising the forces of nature created in 6" square Ceramic Tiles, with their unique qualities of beauty and permanence. On the flank wall, just within the Entrance - special, recessed tiles are used to create the effect of a series of inverted pyramids.

*Architects: Playne & Lacey, F/F.R.I.B.A. London.*
*Designer: Mr. A. B. Read, R.D.I., A.R.C.A., F.S.I.A.*
*Building and Engineering Contractors: Charles R. Price, London & Doncaster.*

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Visit the Council's display of ceramic tiles at the Building Centre, Store St., Tottenham Court Rd., W.C.1. 425/427 Sauchiehall St., Glasgow, C2.

**British Ceramic TILES**

*British Ceramic Tile Council · Federation House · Stoke-on-Trent*

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**REMOTE CONTROLLED**

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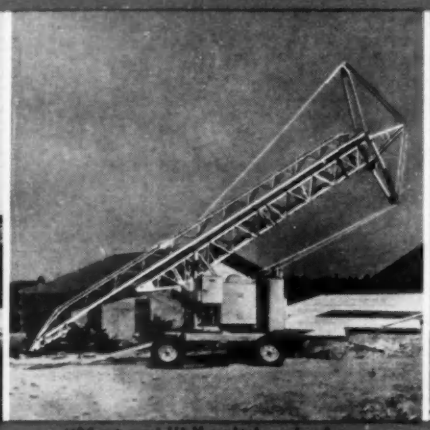
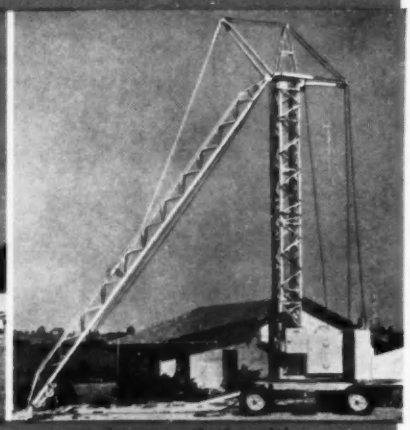
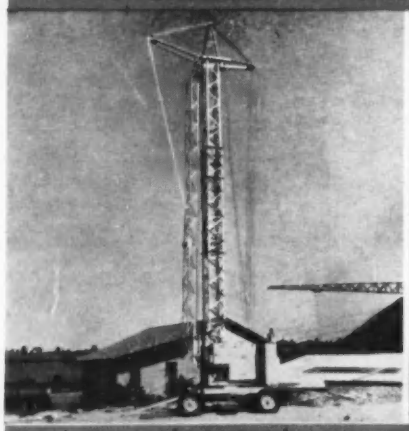


"Mast and jib" unit is raised . . .

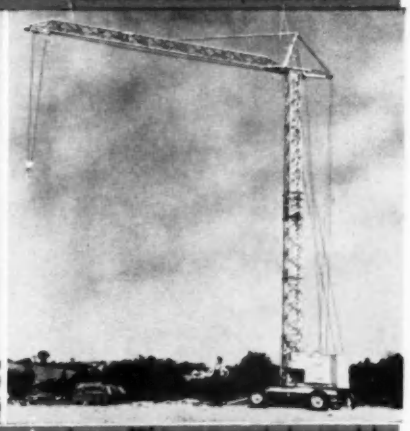


reaches a vertical position . . .



the inner mast begins to telescope . . .

the jib swings out . . .



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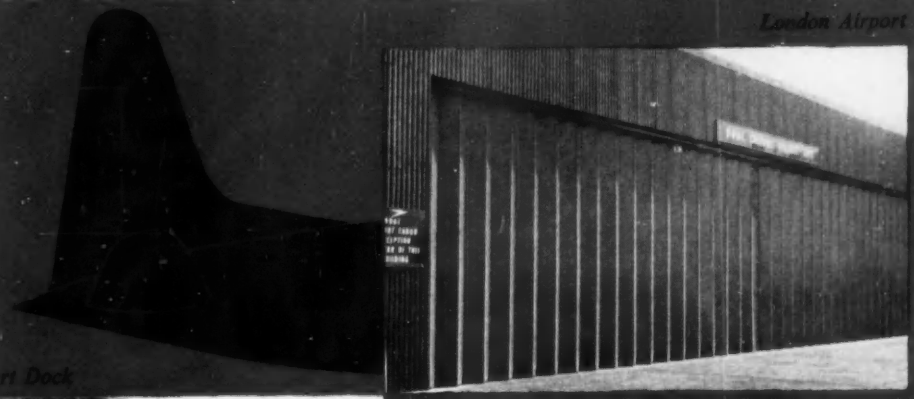
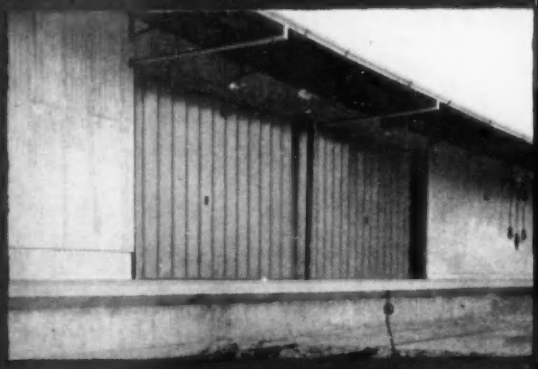


*The Royal Albert Dock*



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Armstrong

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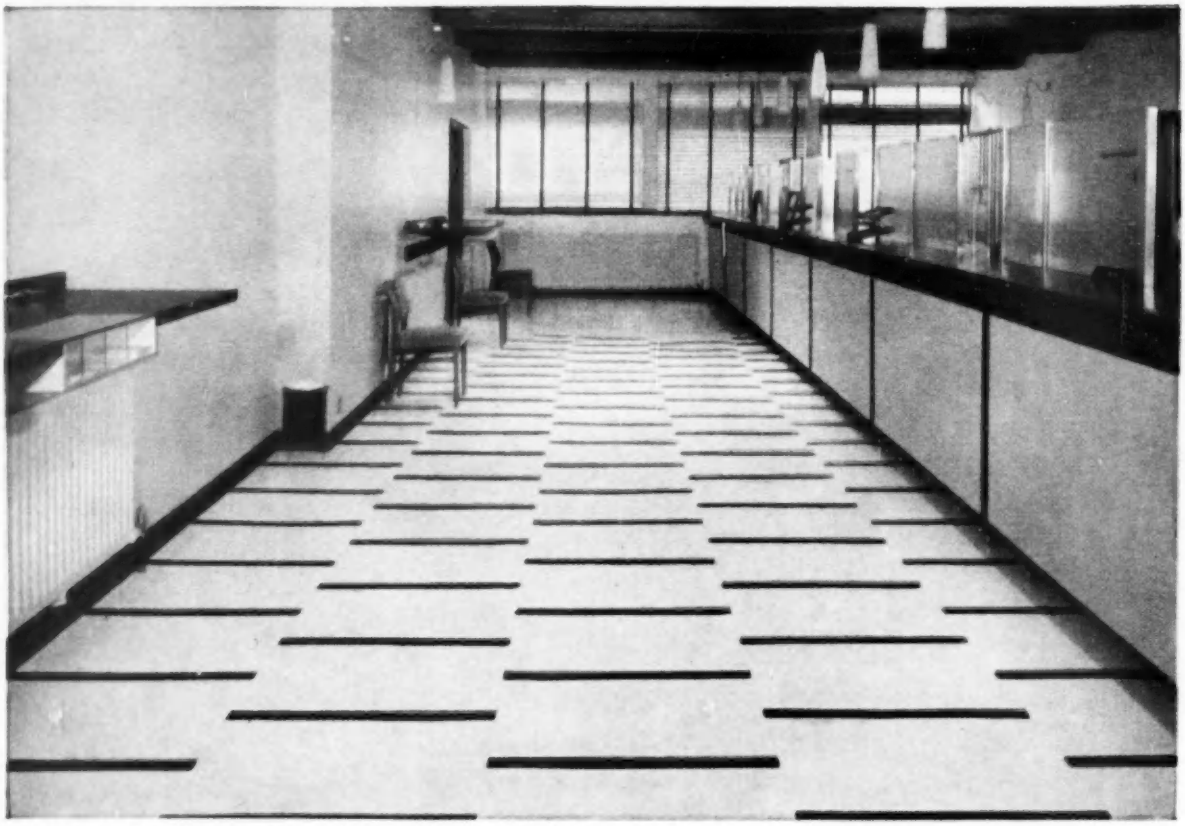

*The National Bank of Ireland, Fairview. Architects: Messrs. Fuller & Jermyn.*

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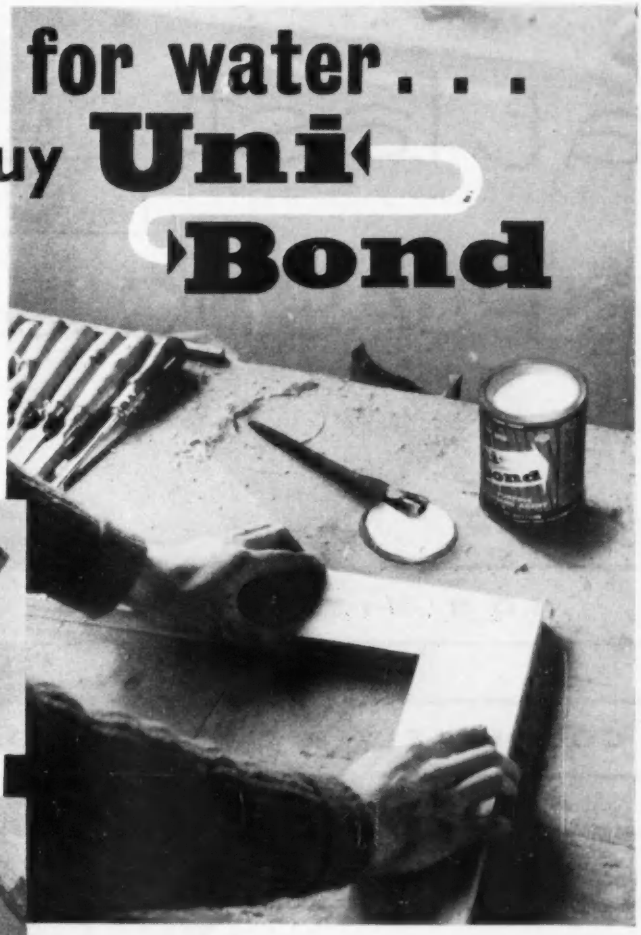

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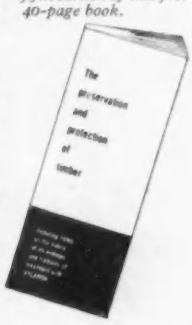


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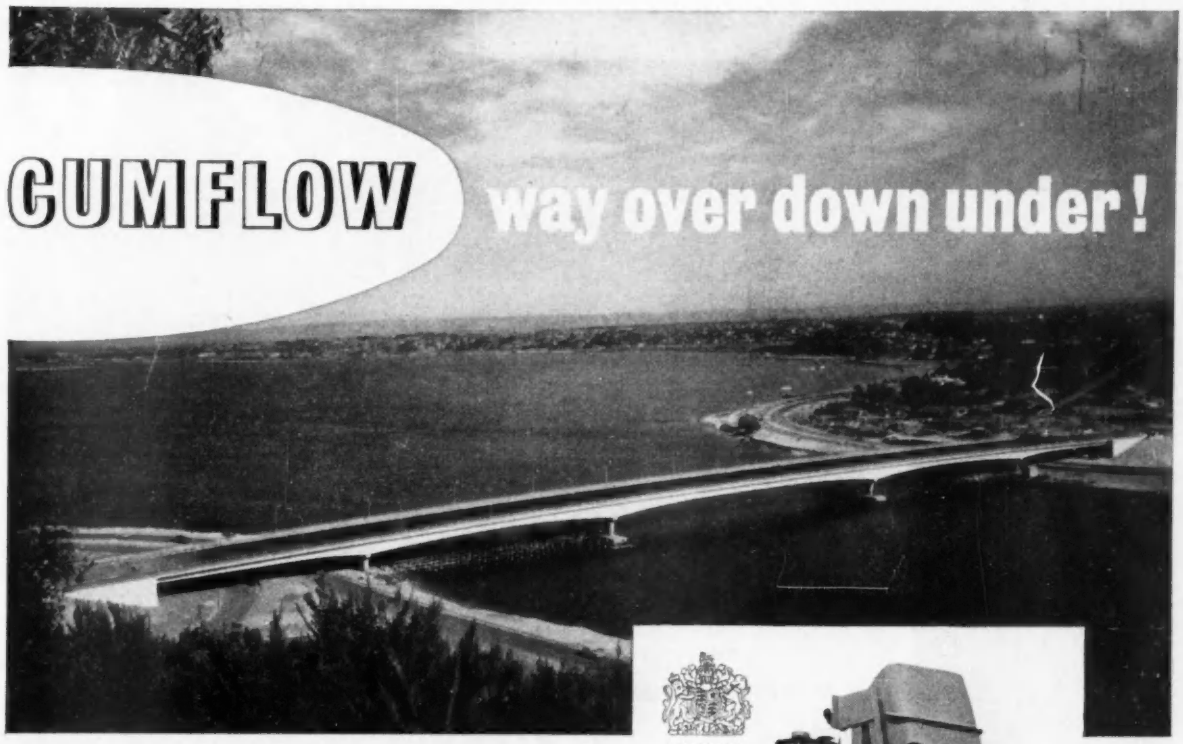


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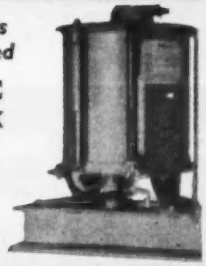

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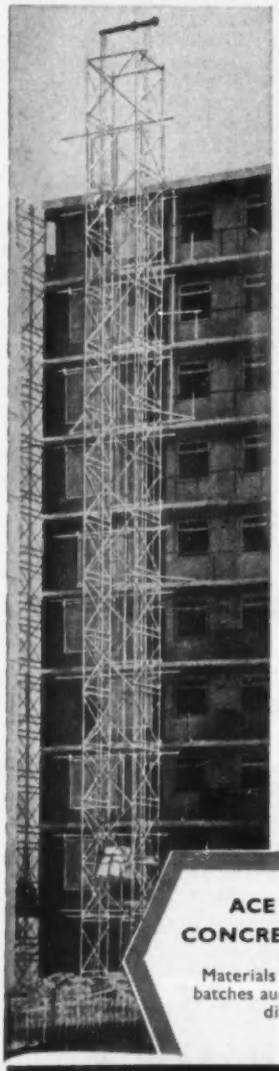

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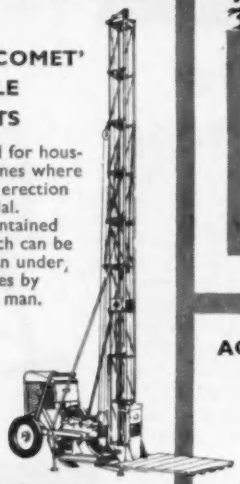

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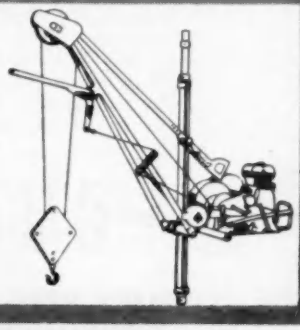

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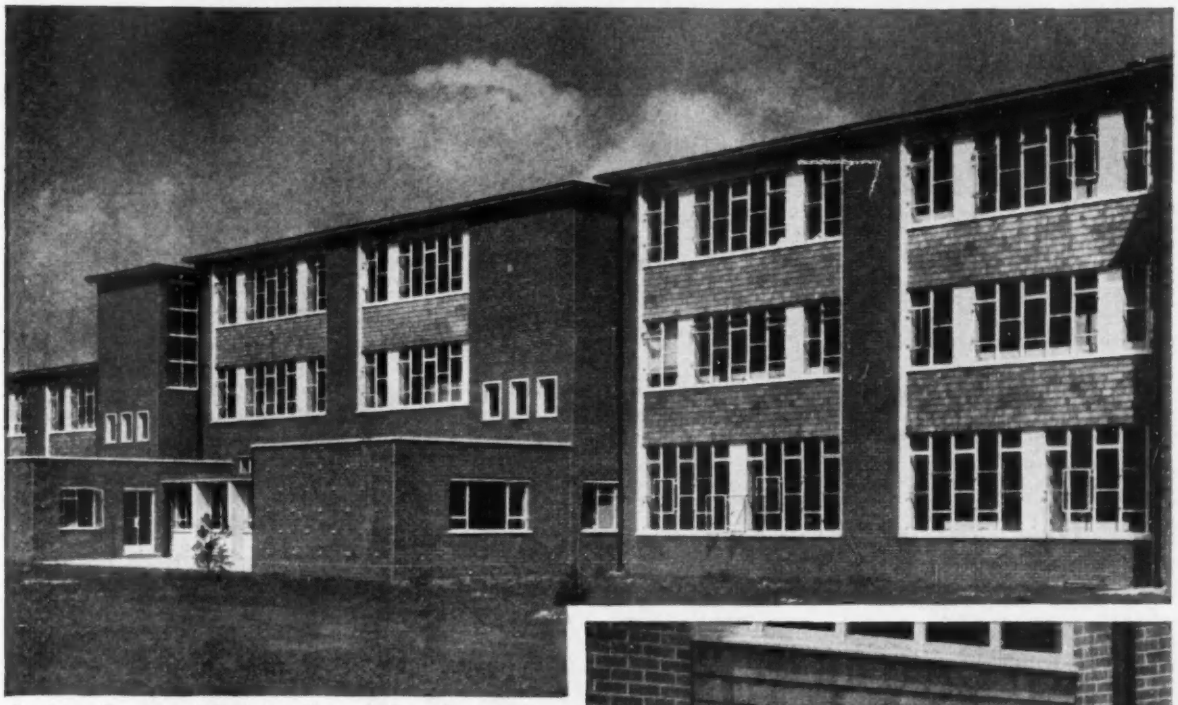
# COLT *Canadian Cedar Wood* SHINGLES



Southern Grammar School for Boys, Baffins, Portsmouth.
City Architect, Frank Mellor, F.R.I.B.A.

ADDING SHINGLES to new style walls is an old well-tried method of providing a distinctive elevation. Colt Canadian Cedar Wood Shingles weather to a pleasant silver grey. Nailed to battens on brick, breeze or timber studding, the construction is both economical and completely weatherproof.

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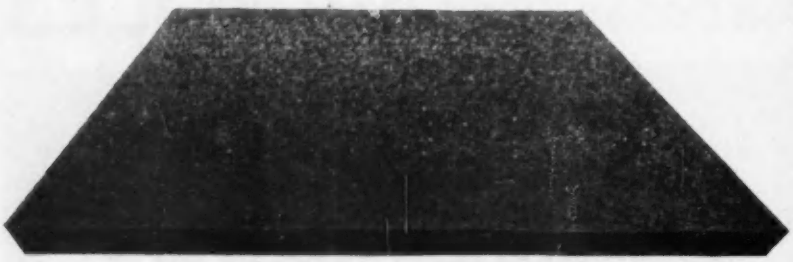

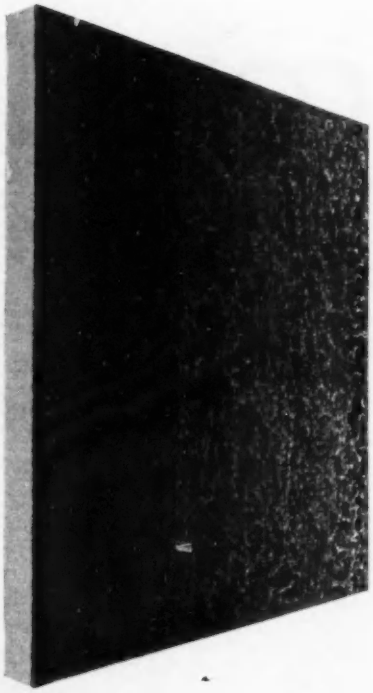

As a permanent shuttering to concrete roofs Stellith prevents condensation, the surface of the slabs provides an excellent key for plastering, but alternatively, left untreated, provides valuable acoustic absorption.

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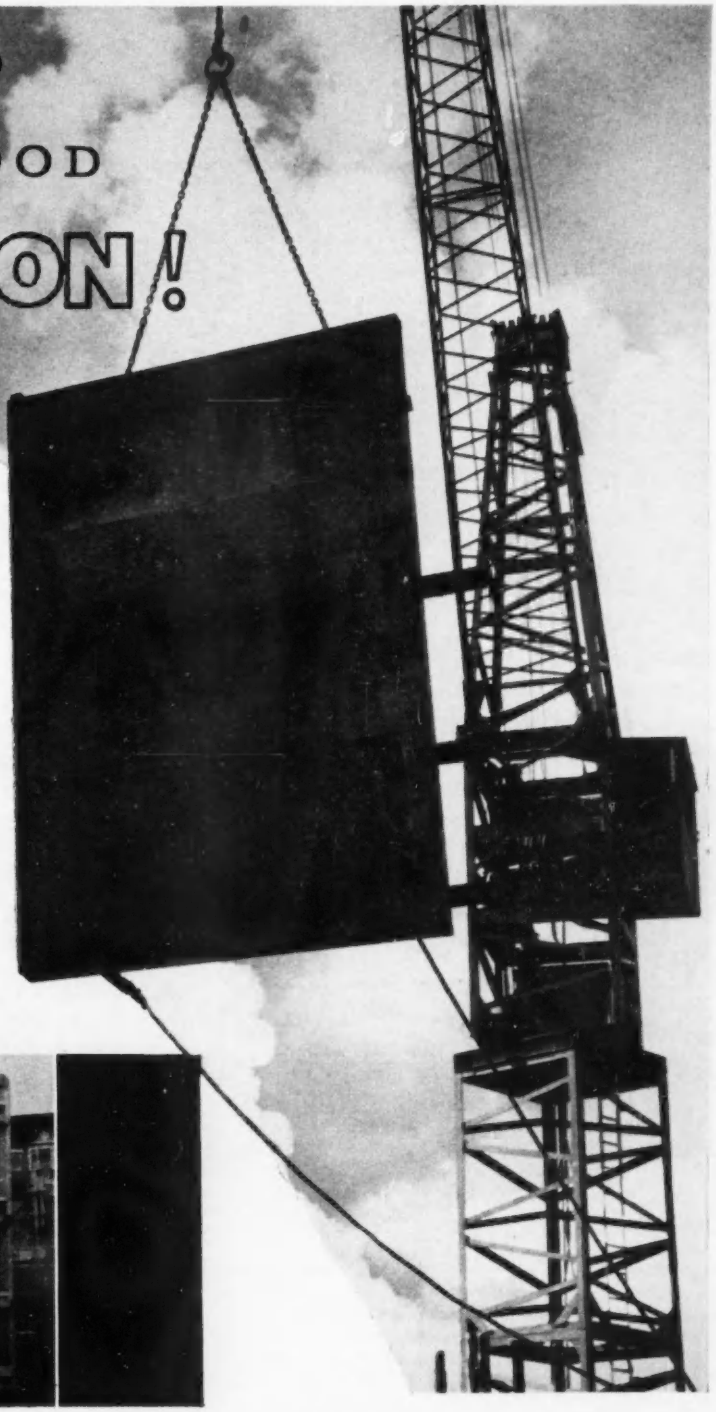

A huge section of Canadian fir plywood shuttering being removed on a building site in South London. Below, newly-formed concrete hardens. It's smooth, even surface will require a minimum of finishing.

Seaboard fir plywood shuttering can be re-used many times . . . given reasonable care. It's tough, split-proof and, most important, waterproof glue-bonded.

For roof sheathing, floor underlay or shuttering, Seaboard fir plywood makes good sense. Large, but easy to handle, 32 square foot panels save cutting, avoid waste and do the work of heavier, more cumbersome materials.

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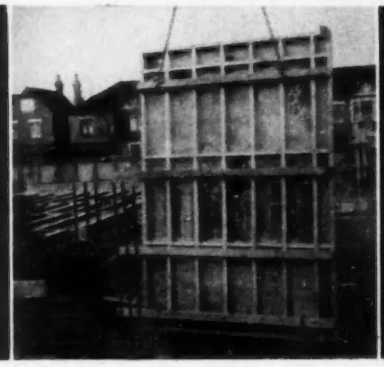

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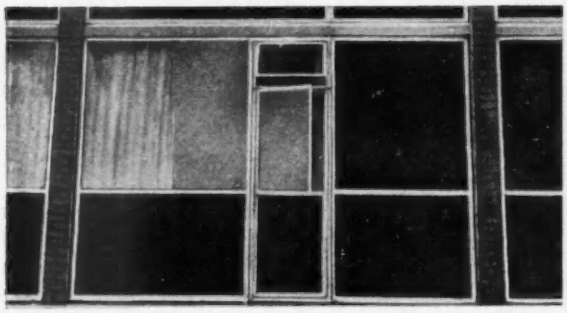
WILLIAMS & WILLIAMS

# at Europe's largest air hotel

This view of the bedroom block and escape staircase illustrates the contrasting blue and white colour scheme chosen for Skyway. The blue Plyglass infilling panels are backed by Thermalite insulation blocks. With quarter inch glass throughout the building, this effectively reduces airport noise to a minimum.

With years of experience in catering for the traveller, Skyway Hotels Ltd. had no doubt about the way they wanted to build at London Airport. A room for the night or a few hours, breakfast at mid-day, or a banquet at short notice for a party delayed by fog—these are a few of the things today's air passengers may need. And, of course, the right atmosphere must be part of the service. Williams & Williams purpose made steel windows were specified throughout this contract. Amongst its requirements the brief called for maximum sound insulation and a creative use of exterior colour. In addition, the installation had to keep pace with an eight months building schedule. Skyway was handed over three weeks ahead of time—and has proved to be just what the traveller wanted. A new bedroom wing, commissioned soon after the hotel opened, has just been completed. Once again Williams & Williams purpose-made windows were used throughout.



For bedrooms at ground level a stall door was specially designed to give direct access to a car park outside. The clean, simple lines of the general design are preserved by installing the opening window and ventilator light in the upper half of the door.

*Architects:* Fitzroy Robinson & Partners.
*Contractors:* Bernard Sunley & Sons Ltd.

In the shopping arcade, passengers can make their purchases and then enjoy a few moments peace and quiet between flights. A feature of the arcade is the glazed front set at an angle. These Williams & Williams windows were specially designed to bring in the maximum amount of light and make room for the plant trough.

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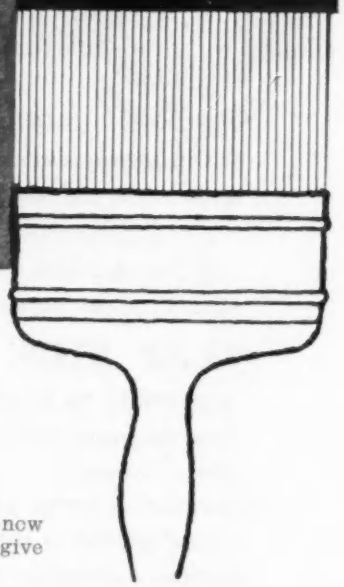

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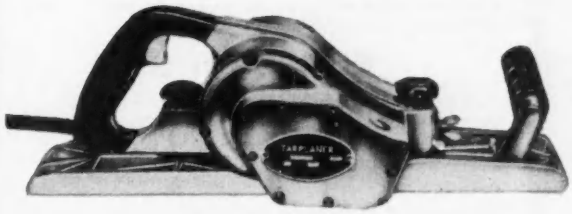

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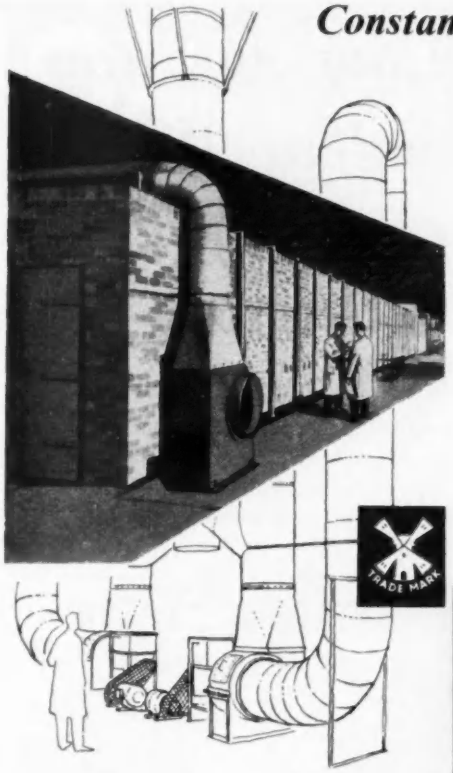


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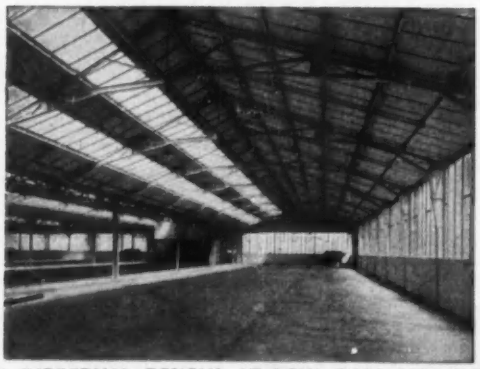

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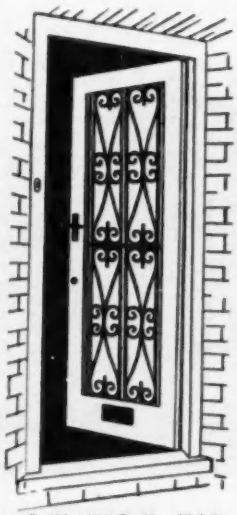

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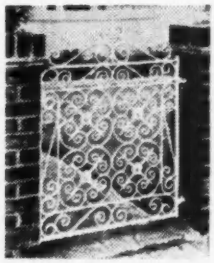

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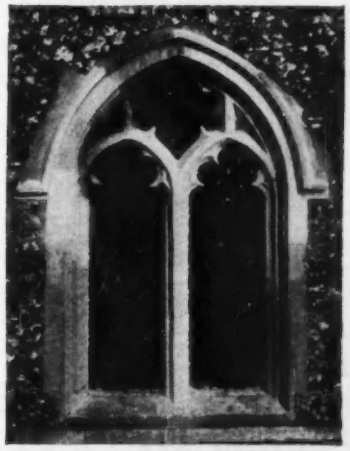

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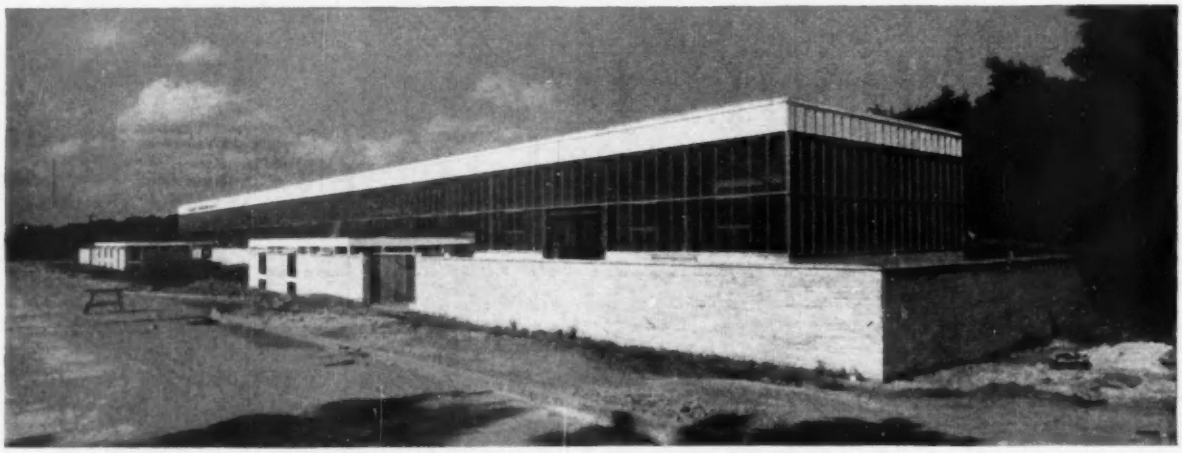

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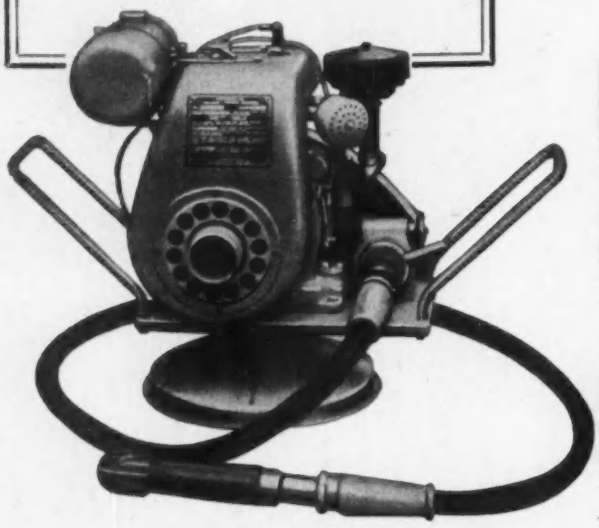

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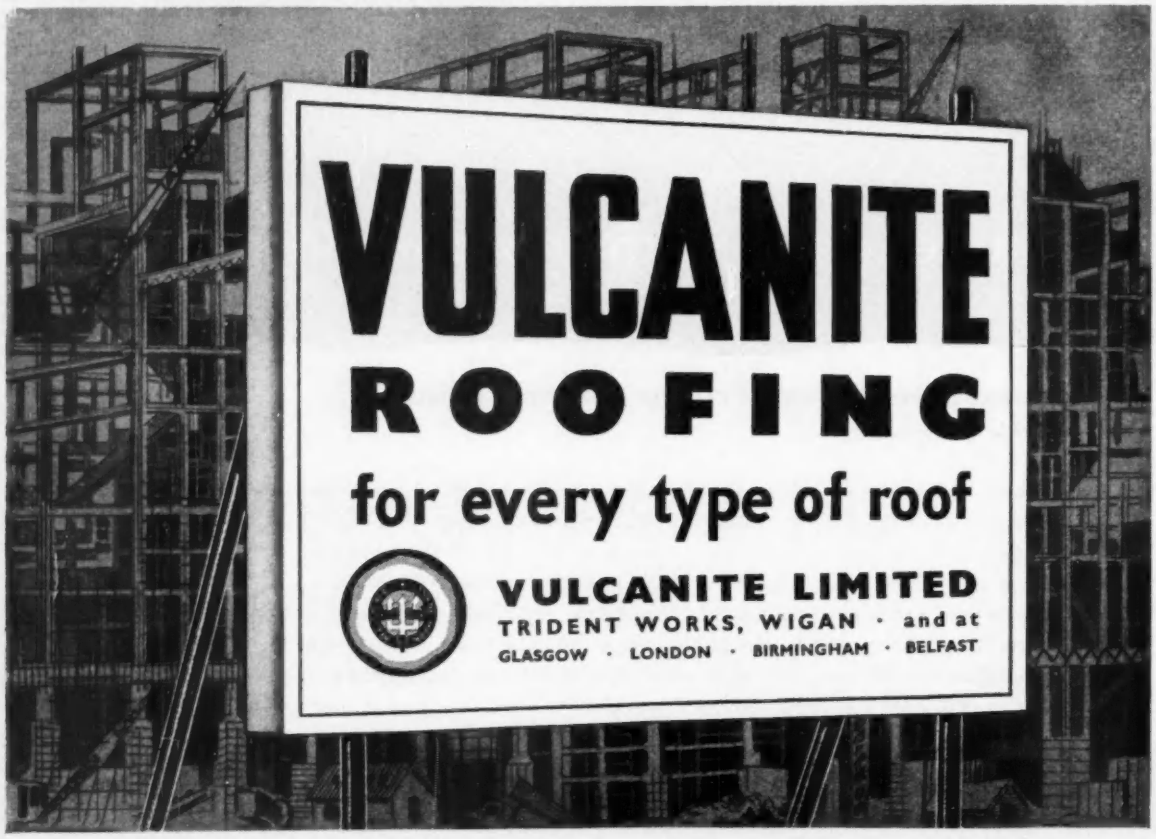

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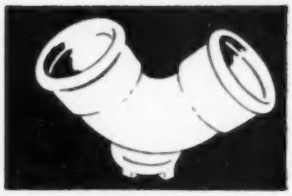

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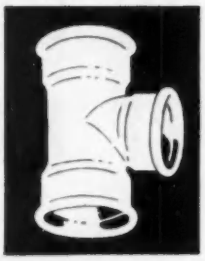

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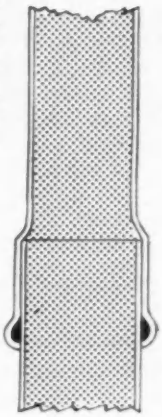

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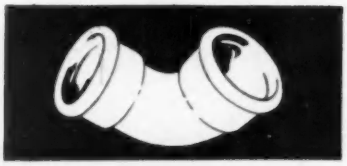

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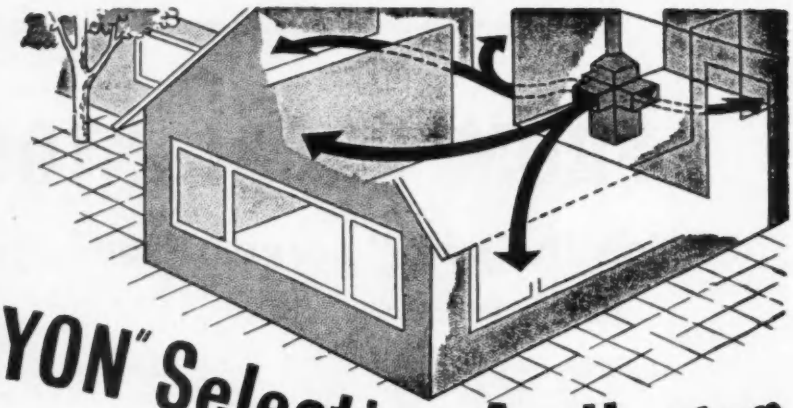

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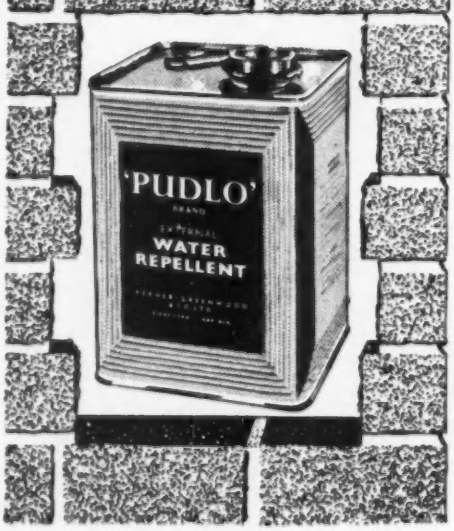


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**857** The Week in Parliament
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**862** The Construction Equipment Exhibition: Preparations Well Advanced
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## News Summary

**836** Mr. J. M. Austin-Smith has been elected President of the Architectural Association for the session 1961-62.

**837** Mr. F. R. Yerbury is to retire as Director of the London Building Centre. He will be succeeded by Mr. Gontran Goulden and Mr. Robert Nott.

**838** Exhibits in the Architecture Room at the Royal Academy Summer Exhibition, 1961, are the subject of a critical review by Mr. Robert Paine, ARIBA.

**851** Following the new tax on fuel oil, cement prices are increased by 3s. 3d. a ton.

**854** 'We may be in one of the periods in which building costs and prices will be rising noticeably faster than the general price level,' states Prof. C. F. Carter in his quarterly analysis of productivity and prices.

**859** The Bill to create the new Government department to be known as the Department of Technical Co-operation was given an unopposed second reading in the Commons.

**861** Certain operatives employed in building and civil engineering were among the manual workers found to be earning £50 a week in a recent Ministry of Labour survey.

**865** In his decision on the first complaint referred to him by the Council on Tribunals the Lord Chancellor concludes that the Minister of Housing and Local Government 'acted strictly in accordance with the procedure approved by the Government following the report of the Franks Committee.'

**877** The Building Exhibition, to be held at Olympia, London, next November, is expected to provide the first opportunity in this country for a full-scale introduction to the industry of SfB classification trade technical literature.

*'Late News' will be found overleaf, and 'News of the Week' on page 851*

D

## *Late News*

### RIBA Prizes

THE ROYAL INSTITUTE OF BRITISH ARCHITECTS announces that Mr. Ian Roger Parsons, of Bridgwater, Somerset, has been awarded the Ashpitel Prize for the highest number of marks in the 1960 final examination. Mr. Leslie John Holman, of Old Hill, Longhope, Gloucestershire, has been awarded the Sir Banister Fletcher Prize for the highest number of marks in the intermediate examination in 1960.

### Gas Council Architectural Competition

THERE is a chance for young architects to design the ideal modern home in a national competition to be run this summer by the Gas Council. An assessor appointed by the RIBA will judge the entries. The competition is for four types of house design, with a £500 first prize in each class. Special awards will be made for kitchen layouts.

Designers will be called on for the minimum amount of work in presenting their ideas, so that they may concentrate on solving design problems in new ways, offering exciting new possibilities for living in modern society. The competition is open to all registered architects and RIBA students who work with them. Designs have to be in by August 31 and applications for conditions should be made to: Secretary, House Design Competition, The Gas Council, 1 Grosvenor-place, London, SW1.

### Zoo's Mammal House Designer

THE LONDON ZOOLOGICAL SOCIETY has commissioned Professor Misha Black to prepare designs for a new mammal house, phase four of the rebuilding plan.

### Development at Trosley Towers

BECAUSE of the volume of public objection to a proposal for the residential development of a 155-acre site on the North Downs at Trosley Towers, near Wrotham, Kent, Mr. Henry Brooke, Minister of Housing and Local Government, has decided to hold a public inquiry. On the evidence submitted at the inquiry the Minister will decide whether the circumstances are such that he should consider exercising his powers under Section 100 of the Town and Country Planning Act, 1947, to modify or revoke the relevant planning permission. The present proposal, submitted to the Kent CC by Messrs. Croudace Ltd., in June, 1960, is for a Trosley Woodland Village which would provide homes for about 2,500 people. The date and place of the inquiry will be announced later.

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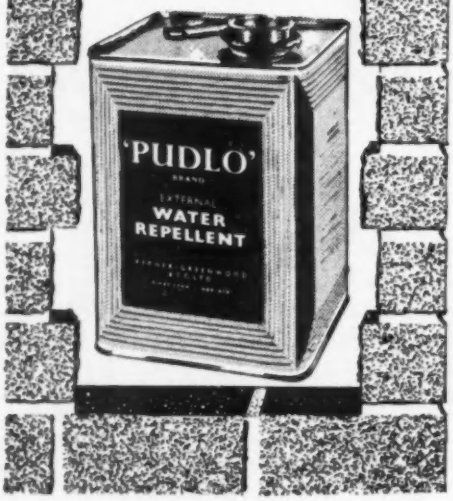


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# The Growth of the South-East

NOTWITHSTANDING all the efforts to restrict the growth of 'Greater London' it continues to expand. In a carefully considered report which it has submitted to the Minister of Housing and Local Government (extracts from it are given on page 863) the Town and Country Planning Association describe the continuing growth and increasing dominance of the South-East Region as the country's most urgent planning problem. The region now extends a distance of 90 miles from Southend and the Medway towns in the east to beyond Reading in the west, and a similar distance from Bletchley and Royston in the north to Maidstone and Burgess Hill in the south. On present trends it is certain that this area will continue to grow in population, employment and extent of urban area at a faster rate than any other part of the country, while older industrial and remote rural areas are almost certain to decline.

The rapid growth of population in the South-East Region is now occurring in areas just beyond the Green Belt lying between twenty and thirty-five miles from Central London, areas described only a few years ago by the late SIR PATRICK ABERCROMBIE as 'the outer country ring,' a ring which is now rapidly losing its rural character and becoming a secondary urban one around London. Can anything be done to halt this frightening trend while it is still possible to preserve something of the area's rural characteristics?

If it is to be done, the Town and Country Planning Association hold that the Government and private employees must become less London-dominated in their thinking and assumptions and take broader views; they suggest three principal courses of action, which are, briefly: (1) while allowing for a further substantial increase in the population of existing towns in 'the outer ring,' further growth across the remaining adjacent countryside to be prevented; (2) the development of certain towns much further from London as attractive centres; and (3) the setting-up of an East Anglia Development Corporation. Twenty-two towns are suggested for consideration for expansion under the Town Development Act or the New Towns Act, five for consideration for development as regional centres, and ten in East Anglia that might be expanded as parts of a regional development programme. East Anglia is held to provide a suitable area for the operations of a single agency since it contains many small towns that are anxious to expand but are unable to do so.

The report suggests that a new series of advisory plans to revise and replace those produced about the end of the last war should be prepared for the principal urban regions of Britain, and asks the Minister to commission them immediately. Drawn up in close consultation with Government departments and local planning authorities, they should give '20-year development proposals concerning major communications, broad population and employment targets, and the location of substantial new developments.'

This appears to be excellent advice, for decisions will soon have to be made as to where the great and inevitable expansion of industry and population is to go. The continuing expansion of Greater London cannot long continue without additions to the land allocated for development in the county plans, of which little remains unused within twenty-five miles of Central London. Any further serious inroads would mean the virtual defeat of the Green Belt policy.

The growth of the South-East Region should have been halted long ago—in its own interests no less than those of the country as a whole. The Town and Country Planning Association is to be congratulated on a report that shows the way towards a new and better era of planned development. It deserves, as it will no doubt receive, the Minister's serious consideration.

# Notes of the Week

AA President; Charade at the RICS; F. R. Yerbury to Retire; Works by Two French Artists; Farewell to Sir Richard

THE ARCHITECTURAL ASSOCIATION can congratulate itself upon its new President, Mr. J. M. Austin-Smith, who takes over in June at a time when new ideas are in the air—both with regard to the Association and the School. 'Mike' Austin-Smith is an architect who believes that an efficient office and an efficiently run contract are no bar to the production of good architecture. He will need his efficiency, for the next year for him will be a busy one: in addition to his presidency and his private practice he is one of the RIBA survey team that are collecting data for a report on the efficiency of the architectural office. All will wish him well; the AA is in for a good year.

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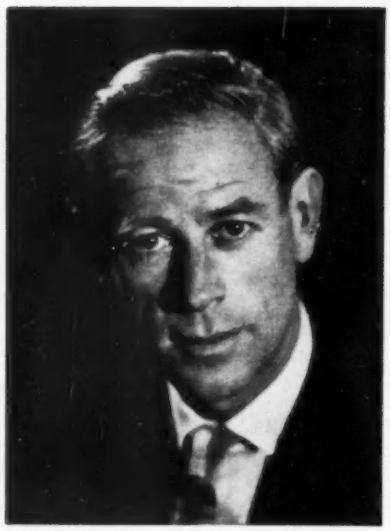
NEVERTHELESS, A SAD NOTE is struck at Bedford-square by the impending departure of two people who are the friends of every AA member. It is over 30 years since Louie Eastman and Gertie Bryant first came to the AA to look after the catering department, and how well they have run it. To many they, in conjunction with 'Alex' Alexander who goes in June after 47 years with the Association, 24 as secretary, *are* the AA and it is impossible to say how much they will be missed. Members have the opportunity to say a practical 'thank-you' to all three, and we shall hope that a bumper result will be recorded.



*Mr. J. M. Austin-Smith, who has been elected president of the Architectural Association*

### Charade at the RICS

THE ORDINARY GENERAL MEETING of the Royal Institution of Chartered Surveyors on Monday (May 1) threw convention to the winds, and instead of the usual learned address by an eminent member or visitor the meeting took the form of a cleverly staged series of conferences. This charade, held at Church House, Great Smith-street, SW1, simulated the protracted negotiations between a property developer and his professional advisers from the conception of a building to its completion. The cast consisted of three chartered surveyors—Arthur Green, Robert Stevens and Jack Hughes—and one architect, Cecil Elsom. Added realism was provided by such things as an actual site, a perspective of the imaginary development, and such stage equipment as ringing telephones and sherry—the latter being always a constant 'member' of the team.

To present in one hour a sequence of events which in reality would take three or four years, the participants in these negotiations were restricted to the quantity surveyor (Stevens), the valuation surveyor (Hughes), the architect (Elsom), and the client (Green). In practice, of course, there would have been a consulting engineer and the building contractor, the imaginary project being a two million pounds block of offices, flats and shops on a site between the Houses of Parliament and New Scotland Yard. The meetings between the four principals were excellently portrayed, the heavy seriousness of the idea being counterbalanced by humorous asides and certain good-humoured repartee. 'Brilliant,' but disastrous ideas by the client from his bath or the beach in Bermuda were constantly scotched in the grand conspiratorial manner. The many vicissitudes of such a scheme were well simulated and the charade ended with an invitation to luncheon at the Savoy by the completely satisfied client.

* * *

THE MEETING ILLUSTRATED the importance of all members of the professional team being appointed by the client at an early stage and in an atmosphere of mutual trust and confidence. It emphasised the necessity of sound leadership by the architect; the importance of the quantity surveyor as a pre-contract consultant in addition to his functions in budgetary control during building operations; and the functions of the valuation surveyor, his responsibility to advise on letting potentialities and to meet the needs of prospective tenants. Other points emphasised were that the architect should accept criticisms of his first scheme with good grace; and that the client should specify his precise requirements and not interfere with planning details. It is hoped that more such meetings will be arranged and that some of the other professional societies will take a lead from this successful precursor.

### F. R. Yerbury to Retire

THE RETIREMENT OF FRANK YERBURY at the end of the year from the post of Director of the Building Centre was announced at the BC's annual luncheon at Claridge's on April 26. The Building Centre will seem a strange place without him, though present arrangements are that his services and advice will be on call from his successors, Gontran Goulden and Robert Nott, acting as joint Directors.

Yerbury, of course, is one of the great figures of the 20th century architectural world. His flair for tying together opportunity and occasion must be unique. At least half of his success has been that, having had a bright idea (and he has had so many) he expects things to fall right—and they invariably have done so. This quality enabled him to make a tremendous contribution to the AA, of which he was secretary for so long, and to the Building Centre which he virtually founded and has led to its present thriving state. The tribute which Mr. Henry Brooke paid to him at the lunch was well deserved. The lunch itself, and especially the wines chosen by Mr. N. C. McNamara, were worthy of the occasion. Sir Basil Spence was in the chair.

### 'Cicero'

*In next week's issue 'The Builder' will publish the first of a series of student supplements, designed to provide a background to architectural education, in which each month one school will be the subject of a review. The current work of fourth- and fifth-year students will be illustrated, and, under the heading 'Cicero,' there will be a selection of news and notes from the schools and other items of interest for students. The first supplement in the series will feature Liverpool School of Architecture.*

### Works by Two French Artists

UNTIL MAY 8 the Drian Galleries, Porchester-place, W2, are exhibiting works by two French artists who have considerably interested architects in their own country, and should do so here, writes BASIL MARRIOTT. They are André Bloc—mostly sculpture; and Edgard Pillet—paintings and 'creusets.' Unbriefed by my agents haunting the 'coulisses' of the Paris 'ateliers,' I found the latter word rather daunting on the invitation card. But M. Pillet's own lucid explanation, and an unusually well written (or translated) note on him in the catalogue, quickly sorted out what even multi-linguists at the opening (by Erno Goldfinger) seemed in some doubt about.

Strictly 'crucible,' the word can also apparently mean mold, matrix or even cradle—indeed the sense conveyed is simply that of concavity. Briefly, Pillet's works in this form are painted and/or incised constructions hollowed out of a built-up quadrangle, to be hung on walls as pictures. He professes to seek an optical rather than a purely decorative effect, his theory being that this converse of the increasingly exaggerated 'impasto' or relief in fact magnifies the effect of recession. I think he has got something, and would additionally suggest that it intensifies, by a sort of 'convection,' his subtle and generally agreeable colour.

André Bloc's sculpture I found more congenial as decorations, or even if regarded simply as engaging toys, than many of the wiry-welded metallic abstracts of more sculptural pretensions to which we have become accustomed. This is largely because he pays far more attention to craftsmanlike finish, and to colour and texture—often a rich and attractive silver-gold-coppery glimmer. His work would, I imagine, be easy to live with at close quarters, even if the more springily-whiskered contrivances tended to snatch at one's wineglass at an unusually crowded party. Bloc has, I understand, architectural aspirations for his sculpture—he started the review 'l'Architecture d'Aujourd'hui' in 1930 and the integration of the arts is his avowed aim.

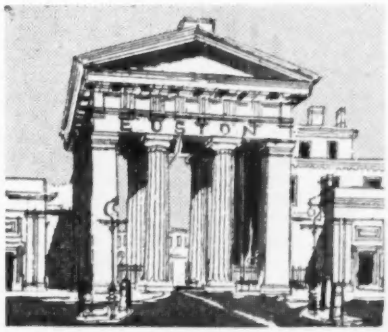
### Farewell to Sir Richard

THE MINISTER OF HOUSING and the Minister of Works were among the gathering of nearly 250 persons distinguished in political and building industrial life who met at the May Fair Hotel on April 26 to pay their tribute to Sir Richard Coppock who shortly retires after 57 years of life as a trades union official—40 of them as the first and only General Secretary of the NFBTO and as Operatives' Secretary of the NJC and its predecessor, the National Wages and Conditions Council. Reference to Sir Richard's outstanding services to the industry has already been made in our columns (January 13) and the speeches—by Mr. Leonard Walden from the chair, Mr. Stephen Hudson, Mr. James Mills, Mr. Harry Weaver (who succeeds Sir Richard) and Sir Frederick Leggett—in their several ways, were outstanding in form and sincerity. 'Courageous,' 'resolute,' 'tempestuous,' 'pugnacious,' 'enigmatic,' 'sagacious' and 'lovable': all these were brought in by one speaker or another to describe a man who, as Sir Frederick well put it, 'was always looking for a solution except when it meant letting down his own comrades.' Coppock would wish no higher tribute.

Sir Richard's own reply was a masterpiece in content and delivery—wise, witty and reminiscent. 'There are not many who dream dreams and live to see them realised,' he said. And he was generous to his fellow trade unionists and to employers' representatives who had hammered out with him over the years the working rule agreement. His tribute to Lady Coppock was echoed by other speakers; all will unite in wishing them both long life and happiness in retirement.

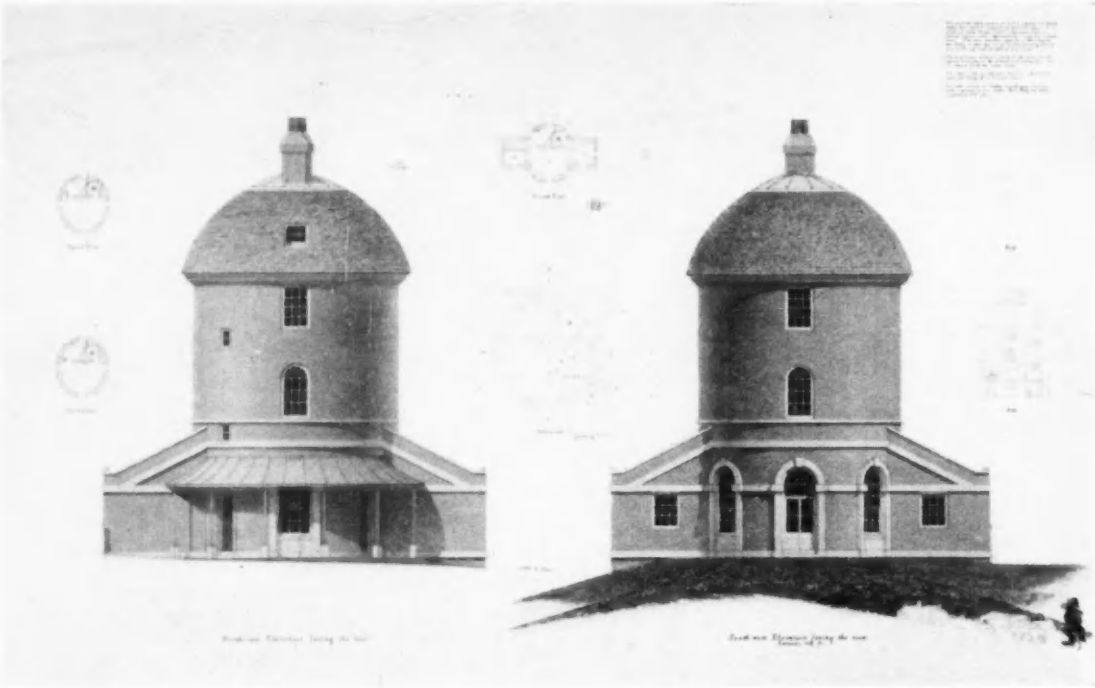
## *Poet's Corner*

IT IS OBSERVED that commentators (among them even the Royal Fine Art Commission) often refer to Euston's Doric Portal as an 'arch.' The excellent little drawing of this monument is reproduced by kind permission of Cubitts, the original builders.



To most observers there must seem
A difference twixt arch and beam;
  Yet some, apparently, would claim
  That arch and beam are just the same.
(The arch in Roman structures seek;
The propylaeum's purely Greek.)
  Forgive me, therefore, if I chortle
  When Hardwick's mighty Doric Portal
Is called an 'arch'—I pray you cease
So to describe that masterpiece.
  Those who do here an arch espy
  Must have a beam within the eye,
Which from the vision please efface
And put it in its proper place.

ANON.



Folly in Herefordshire. RAYMOND ERITH, ARA

# Royal Academy Architecture 1961

Reviewed by ROBERT PAINE, ARIBA, ARCA

'SPACES which form themselves into a harmony good for the use to which a building is to be put,—this, says LOUIS I. KAHN, is Architecture. Unfortunately although the catalogue defines uses, lack of plans as always at the Academy makes it difficult to employ this dictum as a test of the works currently on view. There are, however, some suggestively interesting volumes, many competently ordinary, some funny peculiar and one quite frightening.

Best of the interesting is the St. Anne's College group by HOWELL, KILLICK AND PARTRIDGE, the lie direct to Dr. Bullock of St. Catherine's, clear in its intention, strong in form, right in scale and beautifully flexible; put across moreover without nonsense with drawings which might serve as a model for architectural students everywhere.

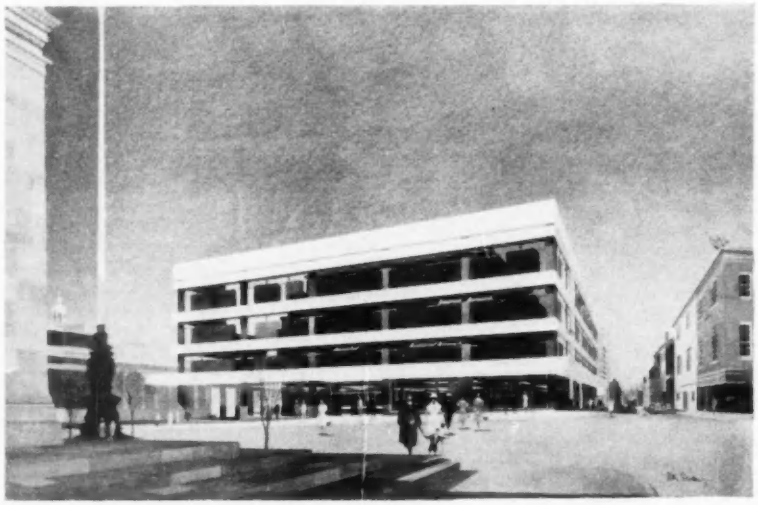
Running it close is CADBURY-BROWN'S new RCA, suffering, alas, by comparison in the drawing. Both have something new and personal to say which stems from basic architecture and is the fruit of the mind rather than the chance of a sketch or the rehash of a recipe. Each has bigness but neither is gigantesque. In each, to quote the Philadelphian sage again 'the form is held,' so intensely that the parts cannot be separately considered and no addition is required to arrive at the whole.

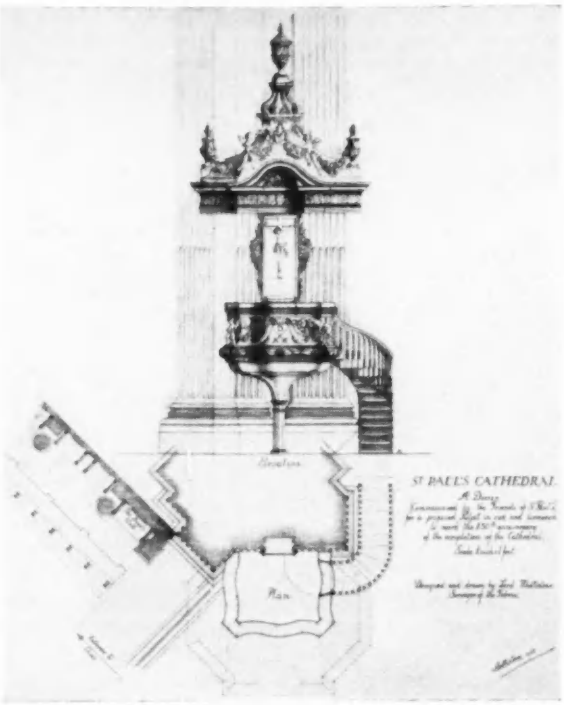
The gigantism they avoid is a flaw in SPENCE'S conception of the Hampstead Group, much too overbearing, and obviously 'composed' with a carapace of fins and louvres which, however true, ring false by being forced. He shows a lovely drawing for the interior of Coventry but one wonders still about the weakness of the junction between columns and ceiling, boggles a little also at what seating may do to a building so handsome when it is empty.

Two other Cathedral projects are on view—GIBBERD'S Liverpool and the second premiated design by C. H. R. BAILEY—the latter owing as much to Sydney Opera House as Gibberd's to another well-known example. Of both it may well be asked why 20th-century man must follow the example of Napoleon's army when approaching the Deity?

Quite truly horrific is JOHN WRIGHT'S Closed School at Redhill for the Home Office. Nothing could better implement Mr. Butler's desire for harsher punishment. Dartmoor is surely more humane than a blockhouse with symbolic outsize keyholes. The same architect, dealing

Department Store, Sheffield. YORKE, ROSENBERG & MARDALL. Drawn by PETER SAINSBURY






New Pulpit, St. Paul's Cathedral. LORD MOTTISTONE

Steel Works Head Office, Corby. E. D. JEFFERISS MATHEWS

with the New Boys' House for the Royal Philanthropic Society, also at Redhill, uses this strange motif again on a building repellant enough to be for old lags. Its grim dourness is not relieved by the tangle of discrepant elements in the re-entrant angle.

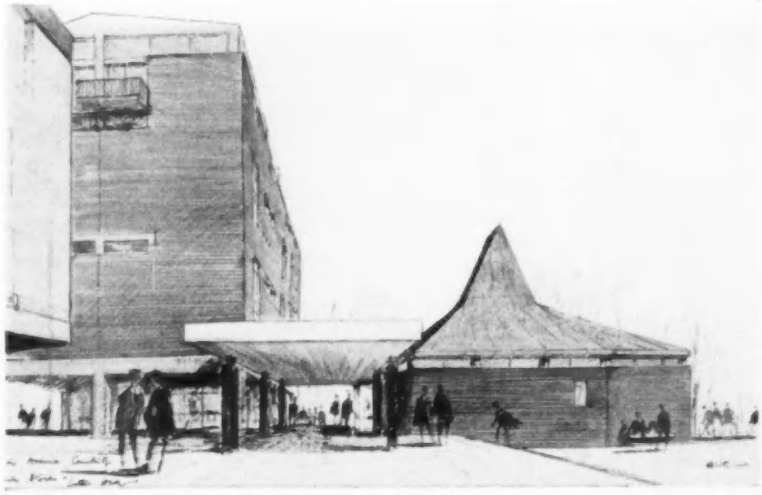
It is a pleasure to turn to SHINGLER & RISDON'S Civic Hall at Dunstable, a part presumably of a large development of which another illustration is provided by item 1203—Middle Row. The latter is fun but less coherent than the Civic Hall which is very cunningly contrived to avoid the monotony, which a frame too readily imposes, without loss of general integrity. The delicately poised roof shell holds promise of fine spaces and generous circulation quite comfortably within the comprehension of ordinary people. For them too there is a very pleasing essay in honest-looking brick and concrete at Heston where ELIE MAYORCAS has designed a Hostel for Canal Boat Children. Work like this is good to see in an age which more and more seems intent towards ever greater collectivities and the disparagement of man as an individual. In this connection the eye is caught again by NEVILLE CONDER'S delicious sketches of the Meeting House for a Pestalozzi Childrens' Village in Sussex, done jointly with Sir Hugh Casson. Here casualness is artfully contrived to sit within the natural landscape as artlessly as do the traditional hamlets round about.

Confidence in this firm's work is shaken perhaps by their project for the Sidgwick-avenue Lecture Halls at Cambridge where the romantic element weakens into whimsy. Hard to reconcile this with their firm handling of the proposed Regent's Canal Footbridge, explained perhaps by a necessarily closer design relationship with their engineer.

All this year's bridges, following what appears to be a slight attempt at more coherent showmanship on the part of those responsible for hanging, may be seen together and it is worthwhile to compare the M2 Typical Overbridge by FREEMAN, FOX & PARTNERS, sponsored by an architect, with the Donnington Bridge at Oxford begotten by the City Engineer: the handling of the ends reveals the means.

A less successful product of attempted showmanship is the Pergamum-sized altar on which are perched the models. The notion to bring the latter up to eye level is good for it saves them from appearing merely toys but the manner of execution is most unfortunate since the great clumsily carpentered bulk makes it more certain than ever that no wandering patron of the less stern arts will penetrate the architectural mysteries. The now standard cult of the perspex cover for all models is a pity since surely if one is

Lecture Halls, Cambridge University. SIR HUGH CASSON, NEVILLE CONDER & PARTNERS



permitted slyly to touch MR. REG BUTLER'S young woman, who is still struggling to get out of her vest, a similar freedom of contact with the architectural projects might benefit appreciation as witness the recent San Micheli Exhibition. This is particularly important in schemes such as that for the Shire Hall, Shrewsbury, by RALPH CROWE where the flow of landscape through the group should be readily felt. It is a vital factor if monotony from the handling of the office slabs is to be counteracted.

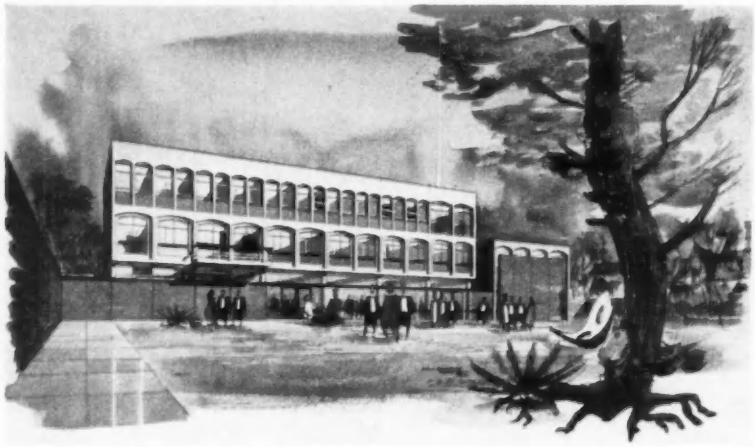
Other schemes in model form include Lecture Rooms and a Library for Liverpool University by BRYAN & NORMAN WESTWOOD AND PARTNERS. If the fine texture here evident can be maintained in structural material the result should be very good; the block is particularly successful in its contrivance of contrasting moods and scales externally and internally. A comparable skill is evident in the project for Gammon House, Bombay, by MICHAEL LYELL ASSOCIATES which makes good use also of a courtyard plan with proportions adjusted to secure ventilation but to exclude the sun. What would never do for Liverpool is eminently suited to Bombay. The external elevations, baffling their inevitable exposure, employ a form of sunbreaker, quite novel but very sensible and pleasingly evocative of things Eastern. Shown as drawings are one or two other schemes for the tropics. The Headquarters Building at Lagos for the Electricity Corporation Nigeria, by WATKINS, GRAY & PARTNERS, achieves a lively African character by simple and direct means, but the Town Hall, etc., at Freetown by NICKSON & BORYS & PARTNERS succeeds only as an outstanding collection of clichés. FRANK RUTTER'S Halls of Residence at Fourah Bay College bore with an excessive repetition of pie-frill roofs.

Back among the models one encounters a similar roof form by its only-begetter—LEONARD MANASSEH — whose aviary-like restaurant used the device in 1951. Mr. Manasseh seems reluctant to be parted from his brainchild and trots it out again for the Hall of Fursedown Teachers' Training College, Wandsworth. He does, however, add a very well modelled tower —presumably a hostel.

Very refreshingly different from these necessarily costly schemes is the Ashmore Park Youth Centre for Staffordshire County Council by NORMAN & DAWBARN which makes excellent use of the incisive forms of interlocking monopitches and a big asbestos-clad hangar for games: an air on a G-string and just as exiguous.

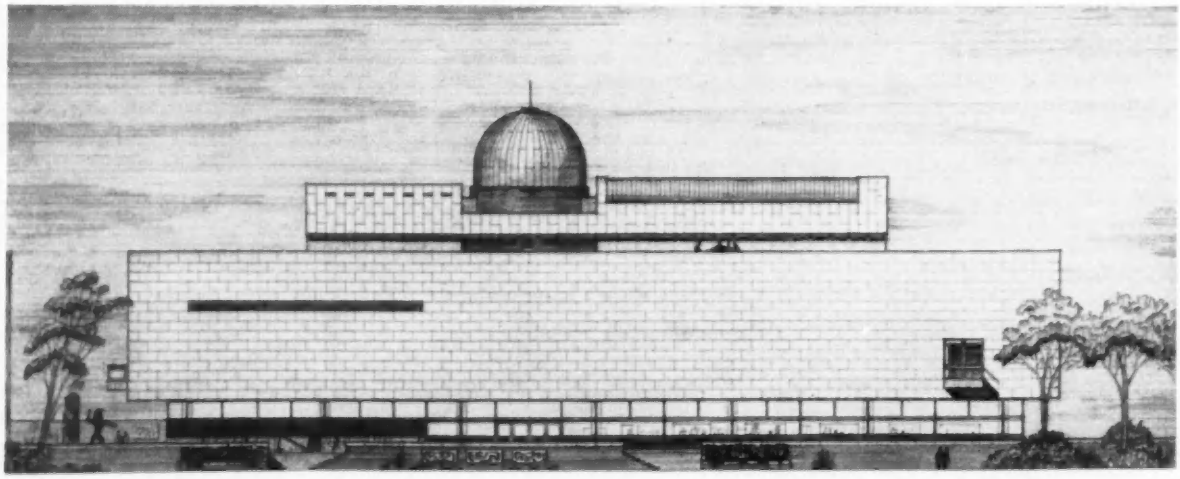
Projects red in tooth and Clore are conspicuously absent from this year's show. This provides a chance to admire BOISSEVAIN & OSMOND'S fine Shopping Centre with its frolicsome winged Elephant station which must assuredly be pink since it so obviously will take to flight. Here space promises to have the quality of a Piranesi fantasy as walkways and bridges lace the void.

The old guard this year is not well represented unless one includes WILLIAM KENT whose ceiling for No. 44 Berkeley-square is lovingly portrayed by FRANK A. EVANS. MR. VINCENT HARRIS forsakes Whitehall for Chard Grammar School with a modest piece of headmaster's delight. SIR ALBERT RICHARDSON has two sketches, one of Amiens and another of a chapel at Twickenham which would shame some of the draughtsmen in the outer galleries and might well have gone there as pace-makers. From SIR HUBERT WORTHINGTON and LORD MOTTISTONE the mixture is as before. Equally one misses certain performers on the troubled sky and graded wash. To fill the void comes ARTHUR H. SHEARING with a new kind of brisk competence and no nonsense. Increasingly division of labour calls for the professional perspective artist. Each year the number of architects who venture to portray their own work grows less until the day when MR. RAYMOND ERITH and SIR BASIL fight it out alone, wash against tint, swirling cloudscape versus bladed grass and shepherd boy. Mr. Erith forestalls our criticism with what he is pleased to describe this year as a 'remarkable edifice,' its plan based upon 'the lunar cycle,' a retreat doubtless for the man in the moon when Mr. K. has made his take-over bid.



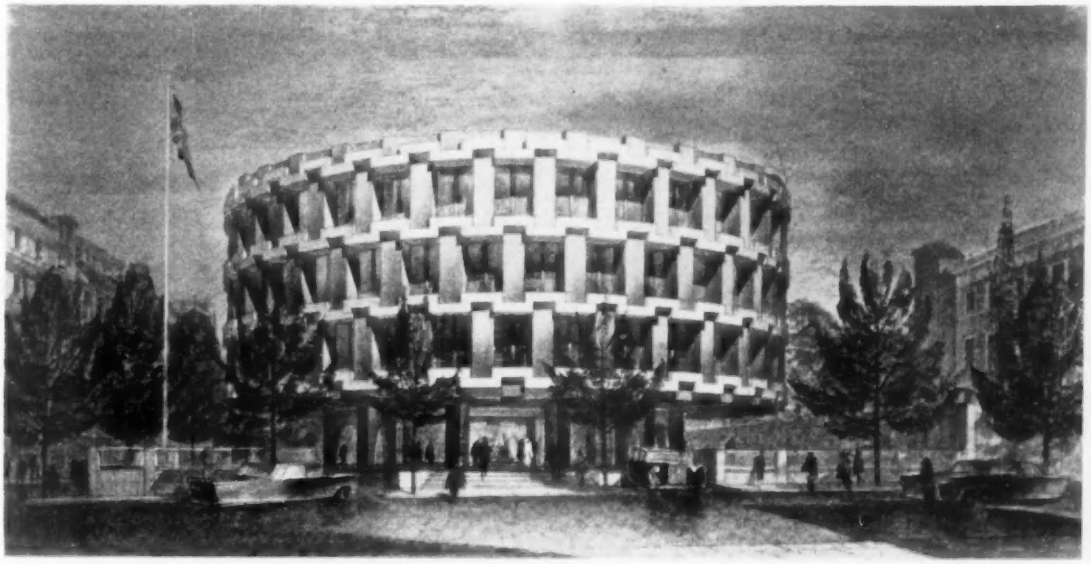
Right: Maison Française, Oxford. E. G. DODDS & K. WHITE. Drawn by PETER J. FRENCH

Below: Central Museum, Kingston-upon-Hull. FREDERICK GIBBERD, ARA. Drawn by FREDERICK GIBBERD



## R A Exhibition 1961

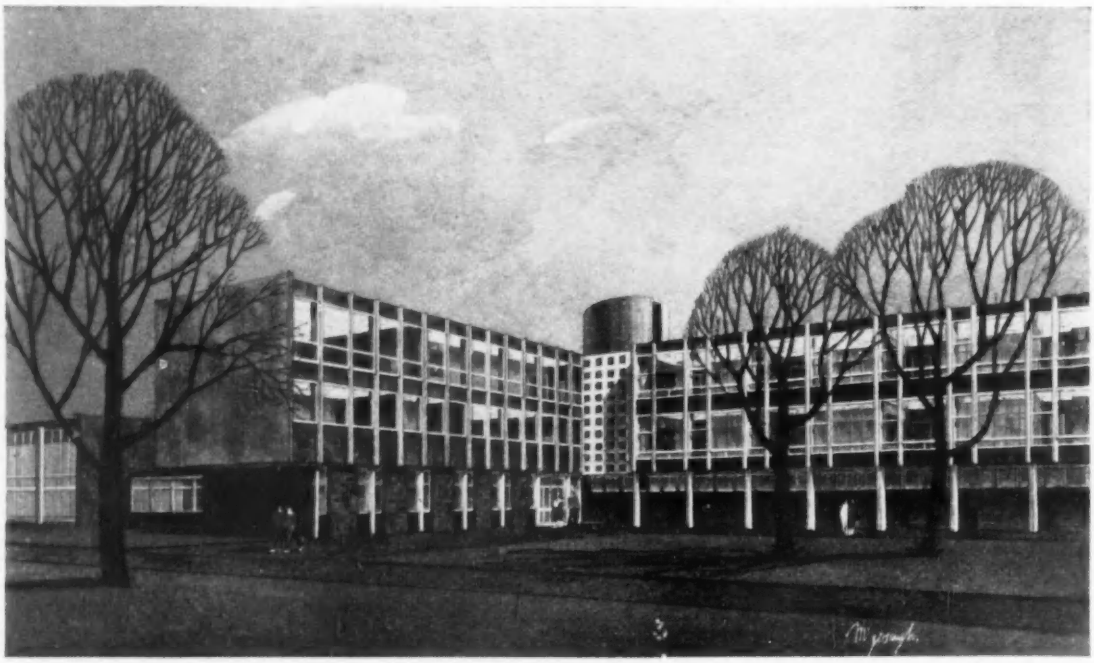
## Civic Buildings



Above: Design for HBM Embassy Offices, Madrid. WILLIAM S. BRYANT, Drawn by WILLIAM SUDDABY

Right: Town Hall and Municipal Offices, Freetown, Sierra Leone. NICKSON & BORYS & PARTNERS (in association with Technic)

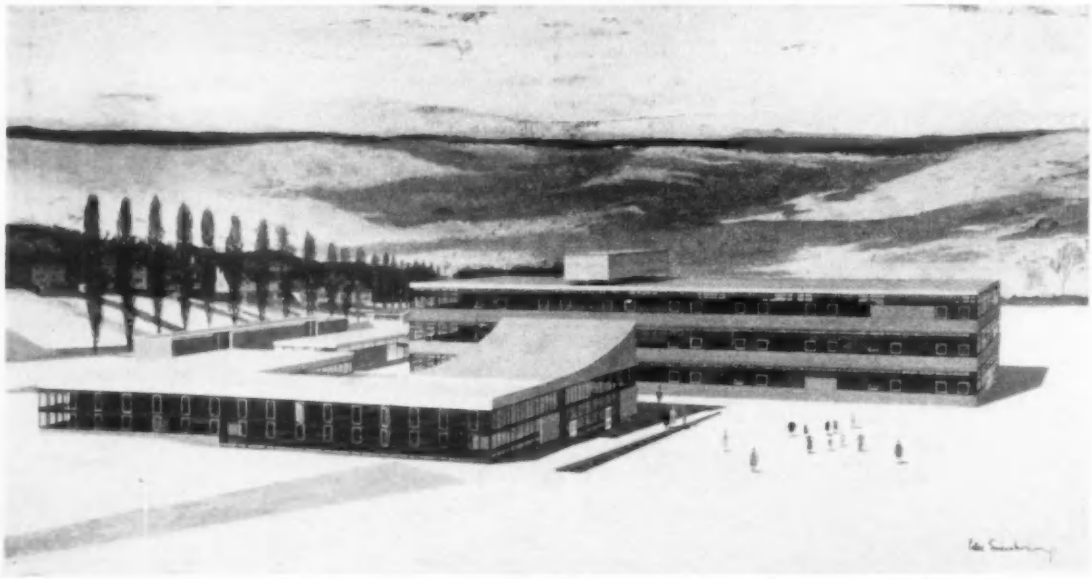
Below: Hampstead Civic Centre Library and Swimming Baths. SIR BASIL SPENCE, RA. Drawn by BASIL SPENCE



Above: Technical High School, Wolverhampton. LAVENDER, TWENTYMAN & PERCY. Drawn by R. M. WALKER

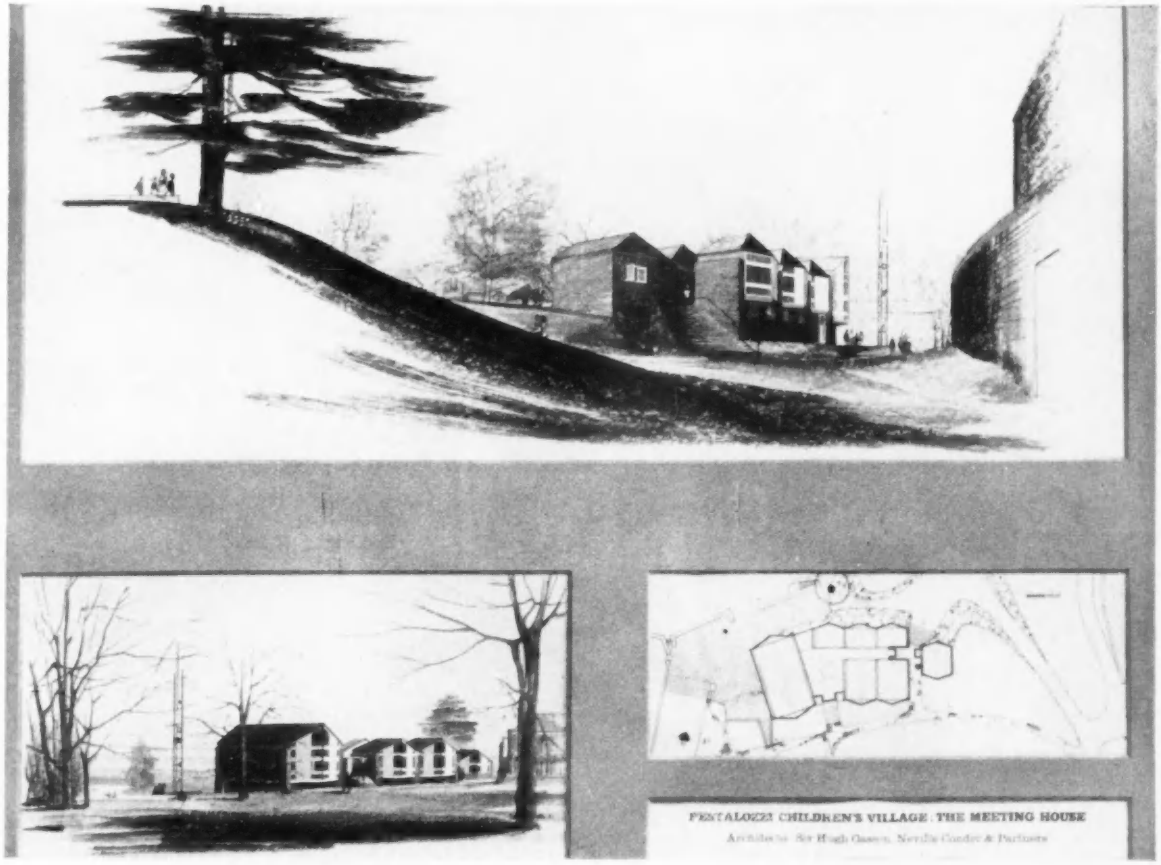
Left: New Boys' House for the Royal Philanthropic Society, Surrey. JOHN WRIGHT

Below: Physics Laboratory and Main Entrance, the Radiochemical Centre, Amersham, Buckinghamshire. E. D. JEFFERISS MATHEWS



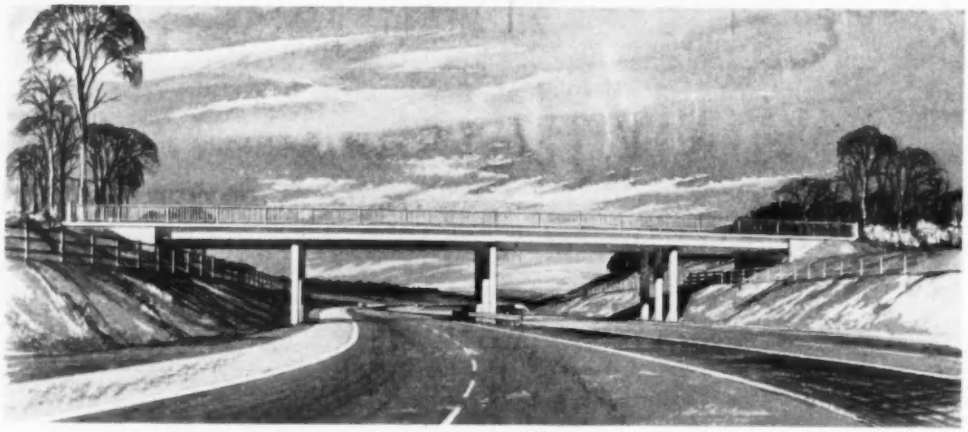
Proposed development at Wellington Hill, Leeds. JOHN R. SHERIDAN-SHEDDEN. Drawn by F. A. WEEMYS

Pestalozzi Children's Village: The Meeting House. SIR HUGH CASSON, NEVILLE CONDER & PARTNERS



## *R A Exhibition 1961* — *Civil Works*

Severn Bridge. SIR PERCY THOMAS & SON. Drawn by R. F. BUCKLEY



M2 typical overbridge. CLIFFORD TEE & GALE, consulting architects. FREEMAN, FOX & PARTNERS, consulting engineers. Drawn by FRANK WEEMYS

Birmingham-Preston Motorway: typical accommodation bridge. ARTHUR BAILEY. Drawn by J. D. M. HARVEY

Proposed hotel, Piccadilly Centre, Manchester. COVELL & MATHEWS. Drawn by A. H. SHEARING

Elephant and Castle Shopping Centre. BOISSEVAIN & OSMOND. Drawn by A. M. MIDDLETON

# Letters to the Editor

## Bristol Central Area Redevelopment; Lighting Installations; Training for Site Management; Multi-Storey Stables; Straw Thatching; House Beautiful Competition

SIR,—You have published articles on this subject and will be aware of the position in regard to it, including the presentation of a petition of protest signed by 11,500 people to the Bristol City Council. The Royal Fine Art Commission asked for the plans of the Norwich Union Assurance Society and the Bank of England's buildings to be submitted to them, together with plans for the whole area of the development prepared by the Bristol Corporation.

I enclose a copy of a letter from the Royal Fine Art Commission to the Town Clerk of Bristol setting forth the Commission's views and proposals. We feel this will be a matter of public interest generally, and not only in Bristol, and we hope you can publish it.

Following a previous request, the Minister of Housing and Local Government declined to intervene. If, after the discussion suggested, it appears to us the Commission remains critical of the development it would seem appropriate again to approach the Minister to ask him to revoke planning permission.

KENNETH NEALON [FRIBA, FRICS],
Chairman, Bristol Civic Society,
28 Orchard-street, Bristol, 1.

COPY

SIR,—I am directed by the Royal Fine Art Commission to refer to the proposed redevelopment of the area bounded by Wine-street/Broad Weir/Lower Castle-street / Castle-street/Bridge-street/High-street which has been the subject of informal correspondence between us since I wrote to you on February 13. The matter was before the Commission at its Meeting on April 12.

Bristol is a city of great distinction with many important buildings surviving from the past and an individual character which is seldom found in this country. In the opinion of the Commission the redevelopment of this particular area provides an opportunity for a comprehensive scheme that by the quality of its layout and its fine architecture could make a worthy addition to the city.

The Commission is not satisfied on the information presented to it, including the design of buildings for the Bank of England and the Norwich Union Insurance Society at the western end of the area, that advantage is being taken of the opportunity. It does not feel however that the matter can be adequately dealt with in correspondence and it would like one or two members to meet if possible representatives of your Council at any early date, preferably in Bristol, in order to discuss the matter in greater detail. If this suggestion is acceptable in principle to your Council I should be glad to know how soon you feel such a meeting could be arranged and who would represent your Council.

The Commission would not wish to comment meanwhile on the designs for the two buildings mentioned above, although it feels that they will be relevant to any further discussion. Copies of this letter have been sent to the Ministry of Housing and Local Government, the Bank of England, the Norwich Union Insurance Society and in view of their special interest to the Royal Institute of British Architects and the Bristol Civic Society.

GODFREY SAMUEL, *Secretary*.
The Town Clerk,
Bristol, 1.
April 21, 1961.

### Lighting Installations in Buildings

SIR,—On one or two occasions, but with particular reference to 'The Builder' of March 24, I have read articles describing most attractive and modern new buildings and studied the illustrations, and it has become obvious that the lighting installations have been considered as an afterthought.

In the issue in question I draw attention to the House in Sutton, Surrey, and to the illustration of the kitchen which shows a bare lamp in batten holder on the ceiling. The later article on 'Precast Assembly for a Boys' Club' contains an illustration of the small hall, having a coffee bar at one end, lit by industrial dispersive reflectors. This seems to me rather deplorable, the installation seemingly having been carried out at the cheapest possible price and with lack of thought as to final appearance, both when lit and unlit.

I have noticed that several multi-storey office buildings in Manchester contain mixed and rather uneven lighting installations and present a poor appearance during the hours of darkness they are lit. One gains the impression that the levels of illumination in some offices rate below IES code recommendations. I have been informed that offices in the new Piccadilly, Manchester, building site, at present under construction, are to be offered for rent minus lighting fittings, the intention being that the occupants provide their own. If this be correct, surely certain standards should be laid down regarding the type of lighting to be installed and a minimum level of illumination which must be maintained? This would prevent (a) mixed lighting and (b) low and inadequate lighting, and present a much improved appearance from outside the building.

Your readers' comments on these points would be appreciated.

ROBERT W. SMITH [Corporate Member of the IES],
19 Kingsnorth-road,
Flixton, Manchester.

*'Back, back—give him air—take him to the architecture room!'*

### Training for Site Management

SIR,—I was interested to read Mr. Arthur Kenyon's remarks on Training for Site Management in 'The Builder' of April 21, which arose out of the address given by Mr. Peter Trench at the Brixton School of Building conference.

'This is a challenge to us architects to put our own site organisation in order,' wrote Mr. Kenyon, 'beginning with the clerk of works.' This view is a factor that has received much attention by the Institute of Clerks of Works of Great Britain Incorporated (which has been an examining body since 1936) during the last two years, and in 1960 a considered and adaptable syllabus was prepared and circulated to technical colleges throughout the United Kingdom, setting out a suggested pattern of studies to guide Principals and Heads of Building Departments of Colleges when planning their courses for preparation for the Institute's part 2 final examination.

The object of this literature was to help fill a real need for the clerks of works of the future by providing theoretical training for students who have reached Higher National Certificate of Building standard and who wish to study and pass the Institute of Clerks of Works' final examination, whilst at the same time obtaining by practical experience on site the very necessary training in the application of their technical knowledge and the development of their personality. In no way did this permit the admission as full members into the Institute of anyone under the age of 28 years, as it is considered this is the minimum age at which technical knowledge and practical experience combine to give a man the necessary confidence in his actions and bearing, to act in the capacity of clerk of works as the architect's representative on site.

The old order in building is changing today, and modern conditions require a much greater knowledge of materials and the technology of building to enable those responsible for management on the site, be it as general foreman or clerk of works, to formulate an early appraisal of a problem and give the right decision. The answer to the incorporation of new techniques is to know in advance their possibilities and limitations and to be able to ward off difficulties on the site and not

*(Letters continued on page 853)*

# Mormon Church, Kensington

T. P. BENNETT & SON, architects

GARDINER & THEOBALD, quantity surveyors

McLAUGHLIN & HARVEY LTD., general contractors

HYDE PARK CHAPEL is situated in Exhibition-road in the centre of the college and museum area. The main body of the church is four-storeys high and six storeys on the tower at the north end, with a needle-like spire rising to a height of 131 ft. above ground.

Construction is reinforced concrete framework with Portland stone cladding. The tower has a stained glass window, 40 ft. high, made of thick pieces of amber, orange, ruby, green and blue glass set in concrete in an abstract design. The design is by Pierre Fourmaintraux, and the entire window was fabricated in the Whitefriars Studio, Middlesex, before delivery to site. The 75 ft. spire is of Burma teak, constructed in a manner similar to the hollow mast of a sailing boat. The spire is finished in gold leaf so that it will remain bright and require the minimum cleaning and maintenance.

The chapel has seating for 200: pews are of mahogany, and all other woodwork is afrormosia. Wall surfaces are finished with vynide plastic sheet. Adjoining the chapel is a recreation hall, and the two areas can be united by withdrawing a folding screen. The floor is Canadian maple, semi-sprung. A nest of 300 chairs is provided under the hall stage, loaded on to trolleys for ease of handling. At the opposite end of the hall is a baptismal font which can be concealed by sliding doors.

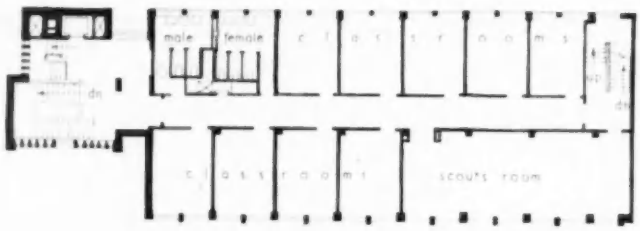
A quiet room for children is placed at mezzanine level, with a large window looking on to the chapel. The first floor has a children's chapel and nine classrooms. An additional nine classrooms occur at second floor, with a Boy Scout meeting room. The tower floors contain the chapel president's room and committee room.

Garage space is provided at basement level, with a delivery bay, battery rooms, switchrooms, stores, ventilation plant room with three gas-fired boilers, and an organ blower chamber. The building will be heated by hot water radiators and by heated air. A self-operated lift accommodating six passengers serves from the basement to the top of the tower.

Sir Thomas Bennett, the architect, described the chapel as 'modern in character, but designed to reflect a fine traditional building as well as modern thought.' The detail internally is simple in character, 'to reflect the whole approach of the Mormons to life itself.'

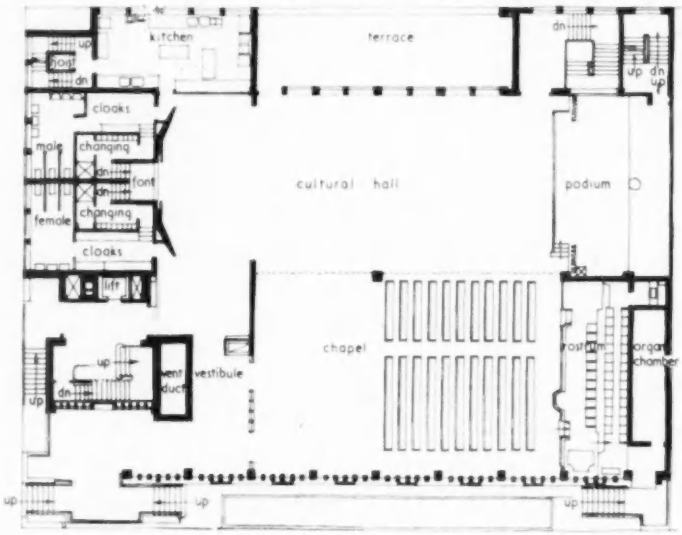
Harold W. Burton, supervising architect of the building committee at Salt Lake City, said recently, 'We try to design our chapels adaptable to the area in which they are built. Over the years, many different types of design have been employed. For a decade after World War II, modified colonial design was dominant. Now, so-called contemporary designs are rapidly replacing traditional architecture due to spiralling construction costs and the ready supply of pre-fabricated materials manufactured under precision methods.'

Total cost, including land, church and furnishings, was approximately £330,000.

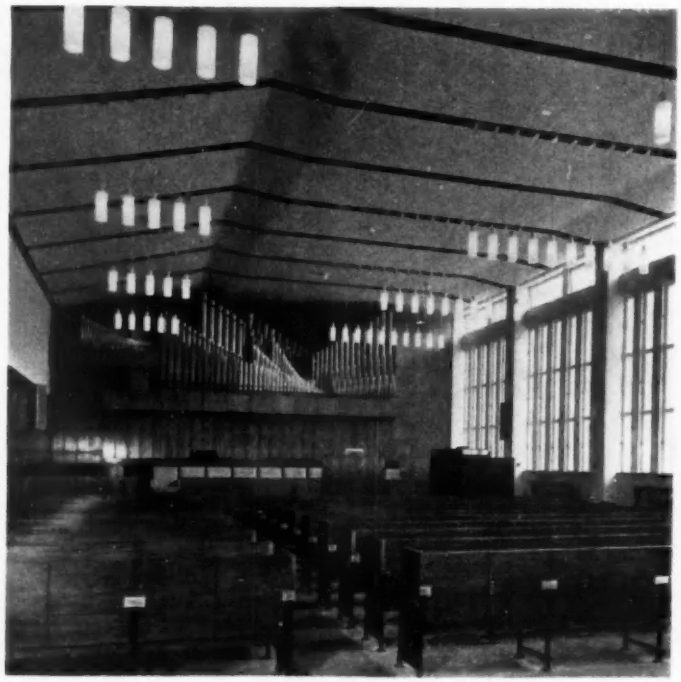


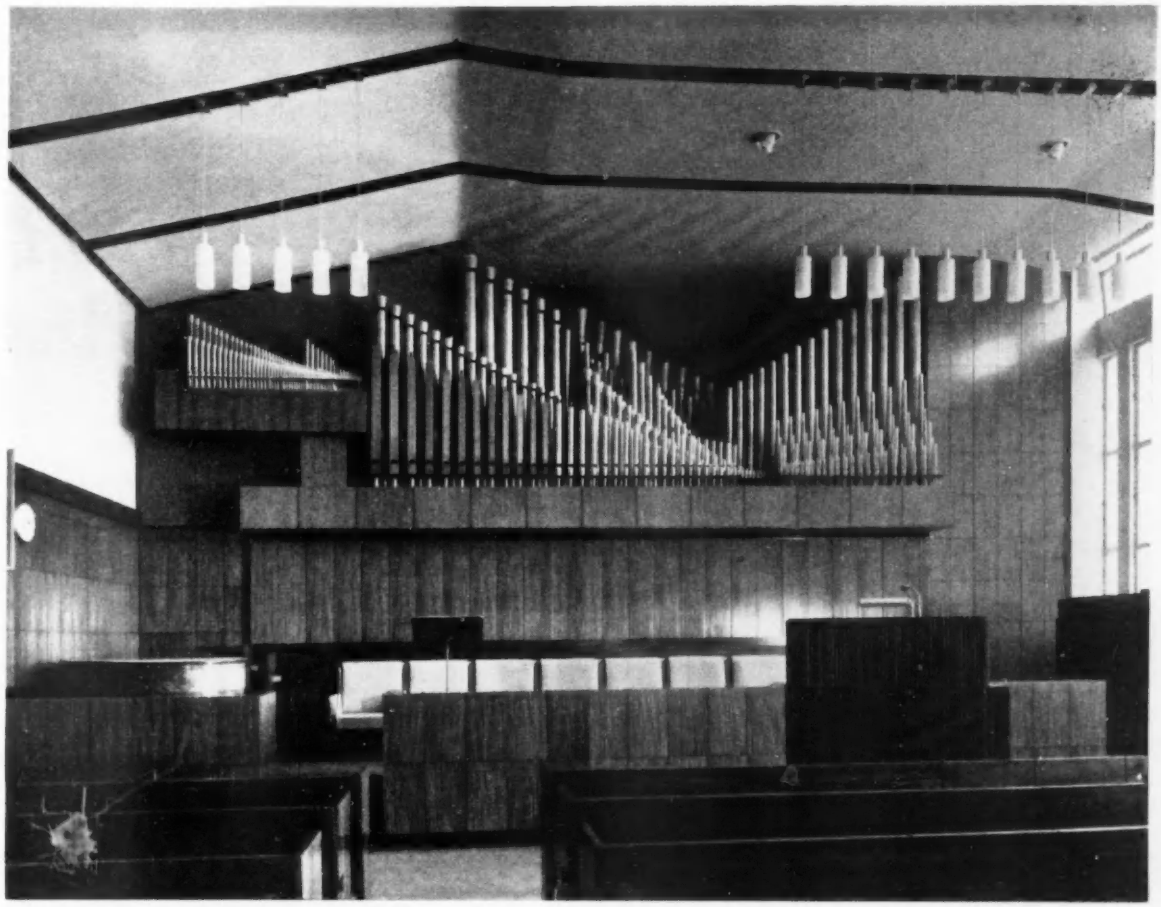

FIRST FLOOR & STAIR TOWER

GROUND FLOOR, Scale: 1 in. = 32 ft.



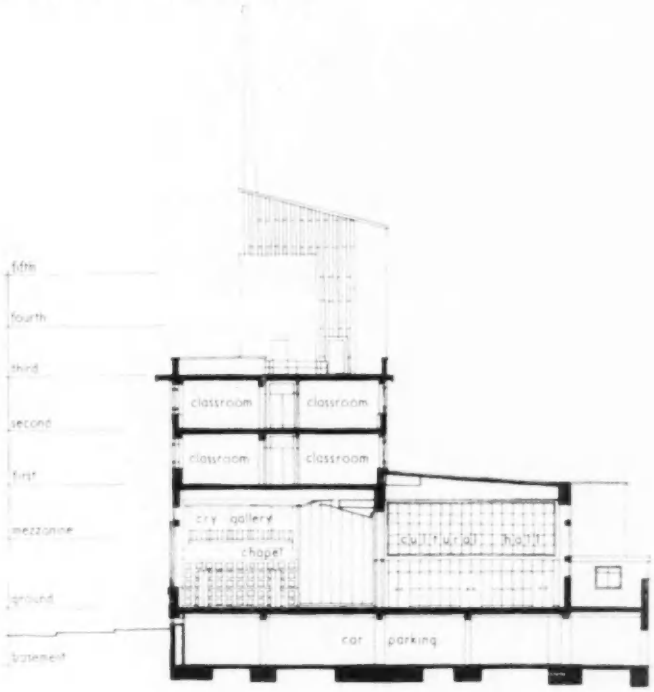

*church interior towards pulpit*



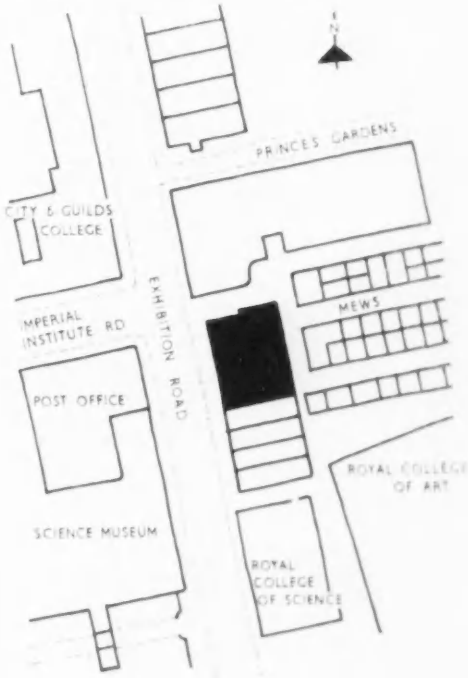


*the 2,545 organ pipes, with choir seating beneath and pulpit and organ console to the right*

*section, scale: 1 in. = 32 ft.*




*site plan*



**sub-contractors & suppliers:**

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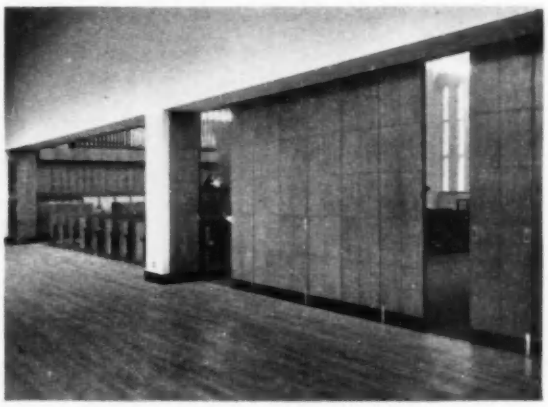

*Top left and left, concrete and stained glass window in the tower, in which faceted glass is used to achieve brilliance. Above, folding screens between the church and cultural hall enabling them to be united*

**Mormon Church, Kensington**

# News of the Week

### LMBA Luncheon to Lord Mayor

THE LORD MAYOR well maintained the reputation he has established for himself for forthrightness and for condemnation of the typically British failing of self-satisfaction when he addressed the members of the London Master Builders Association and their guests at the luncheon given in his honour at the Savoy Hotel, London, on April 28. Putting his finger on an obvious weakness of the building industry at the present time, Sir Bernard Waley-Cohen said that there was one thing that seemed to him vital to the industry's future—that there should be coming forward a far greater number of really skilled craftsmen than was now the case.

Enlarging upon this theme, Sir Bernard spoke of the need for providing incentives and training for real skill in the industry. He himself, he declared, would like to see far greater incentives introduced for those possessing real skill, and he thought that the trade organisations within the industry must give much more thought to stimulating new recruitment if the industry was not to fall down on its job of providing new buildings for the community.

The President, Mr. R. F. Mansell, gave what the Lord Mayor described as a 'remarkable and masterly' survey of the building industry. Coining a new description for the trade, he said that if the Navy was the 'silent service' then building might well be considered the 'silent industry.' Speaking of the problems associated with firm price tendering, he said that the current Budget proposals for payroll taxes and the possibility of 'ad hoc' tax impositions to regulate the economy must increase the industry's difficulties in this respect. Mr. Brooke, Minister of Housing and Local Government, also spoke.

### Cement Prices Increased

THE CEMENT MAKERS' FEDERATION announced on Monday that they are increasing the price of cement from that day by 3s. 3d. a ton. In a statement they say the increase has been caused entirely by the new tax on fuel oil imposed in the Budget and by the increases in coal prices charged to makers on various dates since the autumn of 1960.

'Indeed,' it is stated, 'the increase would have had to be greater had there not been a net saving on rebates owing to the decision of the Restrictive Practices Court that certain rebates were not to be given by cement makers to certain of their customers.

'At works completely converted to oil the fuel duty has increased costs by more than double the amount of the present increase in cement prices.'

The new prices, which operated as from May 1, are detailed in our Current Prices on page 871a. The change was notified too late to be taken into account in our London Measured Rates, which begin on page 867.

### Architectural Teachers' Association

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### SPUR High Oxford-street Exhibition

AN EXHIBITION OF DRAWINGS by Norah Glover and L. Rudowski, illustrating the principle of multi-level circulation as applied to Oxford-street by the architects D. Rigby Childs and Associates, will be held at the Housing Centre, 13, Suffolk-street, London, SW1, from May 9 to 26. The exhibition, sponsored by the Society for the Promotion of Urban Renewal, will be opened on May 9 by Sir Wavell Wakefield, MP.

*Personalities at the LMBA's luncheon to the Lord Mayor, as seen by Harry Riley (see this page)*

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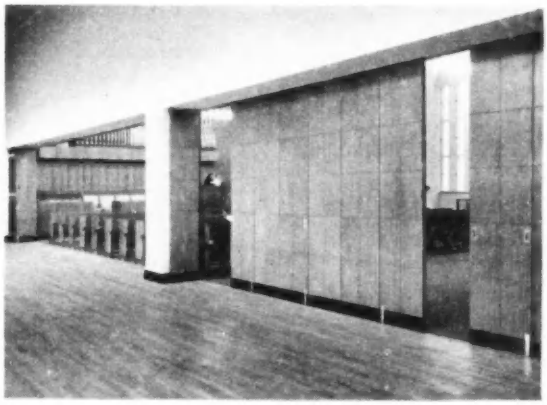

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### Mansion House Redecoration

PROFESSOR H. O. CORFIATO, FRIBA, FSA, SADG, of 15, Woburn-square, London, WC1, is to be engaged as consultant to prepare an initial report on the redecoration of the Egyptian Hall and other rooms and staircases at the Mansion House in London.

### Development on the Walton Studios Site

OUTLINE PLANS of a £1m. development scheme, which includes shops, offices and a car park, on the site of the seven-acre Walton Studios, Surrey, have been submitted to Walton Council by Park Investments Ltd. The company has bought the site for £250,000.

### Tenby Development Scheme

TWO MULTI-STOREY CAR-PARKS, each for 1,000 cars, a conference hall and ballroom, and 14 maisonettes and shops are included in a £275,000 scheme which has been approved in principle by Tenby Borough Council. The development, planned for a 2½-acre site near the centre of the town, is aimed at easing the summer holiday traffic problem and making Tenby a leading conference town.

### Appointments

MR. THOMAS CARTLIDGE, ARIBA, AMTPI, for the past five years chief architect to the Hemel Hempstead Development Corporation, has been appointed to the newly-created position of chief architect at Oldham. The new architectural department will be a merger of the present architectural staffs of the education and borough surveyor's departments.

MR. ALAN BROWN, BSC, AMICE, AMIMUNE, deputy borough engineer at Oldham since May, 1958, has been appointed borough engineer at Warrington.

### Building Surveyors at Dinner

AN UNUSUALLY PLEASANT dinner and dance was held by the Building Surveyors Institute at the Waldorf Hotel, London, on April 28 with the President, Mr. S. C. Greatrix, in the chair. Good food and wine, lively speeches and music during dinner contributed to breaking down any barriers that might have existed between members and guests, enabling new friendships to be formed among the various sections of the building industry who were represented.

In addition to the President, speakers included Mr. Donald W. Wade, MP, the Liberal Whip in the Commons, who even his political opponents conceded made out a good case for some regulation of land values; Mr. J. D. Gilbert, Immediate Past President; Sir Robert Gransden, CBE, Agent of the Government of Northern Ireland in Great Britain; and Mr. George Grosvenor, CBE, Past President, NFBTE.

## A Hundred Years Ago

### From The Builder of May 4, 1861

THE COMING GREAT EXHIBITION.—When the idea of the second Great Exhibition was first started, many pooh-poohed it, believing that it would be difficult to create again the enthusiasm which was shown by all in 1851. However, when the determination was made, the waverers became steady, and of dissenters against the proposed plan of the Royal Commissioners we now hear nothing.

The concrete is now put in for the permanent part of the intended building: the great domes are staked out; and all the arrangements are now made for a fair start. Applicants for space have poured in during the last week. Not only in the great manufactories of our own nation, but in those throughout Europe, America, and our colonies, the busy note of preparation is heard, and thousands are now anxiously thinking how they can add to their own reputation and to the advancement of general civilisation.

## Coming Events

*FRIDAY, MAY 5*

INSTITUTE OF BUILDERS (MIDLANDS BRANCH). Film show. Grand Hotel, Birmingham. 7 p.m.

*SATURDAY, MAY 6*

INSTITUTE OF BUILDERS DISCUSSION CLUB (LIVERPOOL AND DISTRICT CENTRE).—Visit to the Fisher & Ludlow site, Kirkby, by courtesy of Cubitts. 10 a.m. (at site).

*MONDAY, MAY 8*

ARCHITECTS' BENEVOLENT SOCIETY.—Annual meeting. RIBA, 66 Portland-pl., W1. 3.45 p.m.

INSTITUTE OF BUILDERS.—Inaugural meeting of North Western Branch. Building Centre, Manchester. 7 p.m.

*TUESDAY, MAY 9*

SPUR.—'High Oxford Street,' and exhibition of drawings by N. Glover and L. Rudowski. Opening by Sir Wavell Wakefield. 11.30 a.m. Housing Centre, 13 Suffolk-st., SW1. Mon. to Fri.: 10 a.m. to 5.30 p.m. (until May 26).

LMBA (CENTRAL AREA No. 3).—Spring luncheon. Cutlers' Hall, EC4. 1 p.m.

BRITISH ELECTRICAL DEVELOPMENT ASSN.—Annual luncheon. Savoy Hotel, WC2. 1 p.m.

RIBA.—Annual meeting. 66 Portland-pl., W1. 6 p.m.

BUILDING SURVEYORS' INSTITUTE (REGION No. 2—MIDLANDS BRANCH).—Discussion: 'Contractual Conundrums.' Birmingham Exchange & Engineering Centre, Stephenson-pl., Birmingham, 1. 7 p.m.

*WEDNESDAY, MAY 10*

BUILDING CENTRE.—Exhibition of models and drawings sponsored by the Pestalozzi Children's Village Trust. Until May 20.

INSTITUTE OF MATERIALS HANDLING.—Second international conference. Southport (until May 12).

INSTITUTE OF BUILDERS DISCUSSION CLUB (NEWCASTLE AND DISTRICT CENTRE).—Visit to The Armstrong Cork Co. Ltd.'s factory at Kingsway South, Team Valley, Gateshead. 7 p.m. (at factory).

INSTITUTE OF BUILDERS DISCUSSION CLUB (BRIGHTON AND DISTRICT CENTRE).—'New Techniques in Building,' by Mr. D. Bishop. The Clarence Hotel, Brighton. 7.30 p.m.

*THURSDAY, MAY 11*

INSTITUTION OF CIVIL ENGINEERS.—Joint meeting with Institute of Landscape Architects: 'Collaboration Between Engineers and Landscape Architects,' by Messrs. C. S. Chettoe and G. A. Jellicoe. Gt. George-st., SW1. 5.30 p.m.

INSTITUTE OF BUILDERS DISCUSSION CLUB (BIRMINGHAM CENTRE).—Presentation of 1960 examination diplomas, by Mr. F. Russon, followed by lecture on 'Safety in Building,' by Mr. J. A. Hayward. Grand Hotel, Birmingham. 7 p.m.

ROSPA.—National Industrial Safety Conference. Scarborough. 8.30 p.m. (until May 14).

*SATURDAY, MAY 13*

INSTITUTE OF CLERKS OF WORKS OF GREAT BRITAIN.—79th Anniversary Dinner. Balmoral Suite, Connaught Rooms, WC2. 6.30 p.m.

## Competition News

### New Library for Trinity College, Dublin

THE NAMES of the architects awarded premiums in the international architectural competition for a new Library Building for Trinity College, Dublin, will be announced on June 8. On the same day an exhibition of the designs entered in the competition will open in the Long Room of the College Library at 4.15 p.m. Subsequently, the exhibition will be open to the public on weekdays from June 9 to 23, from 10 a.m. to 4 p.m. daily (Saturdays, 10 a.m. to 1 p.m.).

### New Buildings for University College, Dublin

ARRANGEMENTS are well advanced for the open architectural competition for the general lay-out of new University College, Dublin, buildings, and for the design of one block of the buildings, on a 252-acre site 2½ miles from the city centre. It is expected that the date of the competition, which is to be organised in accordance with the rules of the Royal Institute of Architects of Ireland and the International Union of Architects, will be announced within a month or so.

Proposals involving expenditure of about £6,700,000 on new buildings to have about 610,000 sq. ft. of floor space—or about three times that in existing UCD premises—have been approved in principle by the Eire Government which will contribute to the cost. The Eire Government will also take over the present UCD buildings at Earlsfort Terrace and Merrion-street, Dublin, which are estimated to be worth £1,500,000.

Irish and oversea architects are to be invited to compete. There will be a first prize of £3,500 and others of £2,000, £1,000 and £500. The following have agreed to act as assessors:

Mr. Eoghan Buckley, BArch, FRIAI (Dublin), past president, Institute of Architects of Ireland; Professor W. Dunkel (Zurich); Professor Kay Fisker (Copenhagen); Professor Desmond FitzGerald, Professor of Architecture, University College, Dublin; Mr. G. MacNiocaill, BArch, FRIAI (Dublin), assistant chief architect, Office of Public Works in Ireland; Professor Robert Matthew (Edinburgh). Professor M. A. Hogan, Dean of the Faculty of Engineering and Architecture, University College, Dublin, will be chairman of the Board of Assessors. Mr. Matthew McDermott, BArch, MRIAI, ARIBA, lecturer in architecture, University College, Dublin, is to act as registrar to the Board of Assessors.

# More Everyday Things

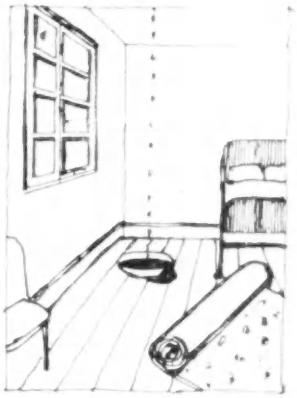
BY ARTHUR W. KENYON, CBE, FRIBA

## 40. Defects Liability Period

'DEFECTS LIABILITY PERIOD: six months.' These ominous words appear in the appendix to most building contracts. At the time of the signing of the contract and the initial preparations for work, the clause is filled in light-heartedly as one of the minor formalities. At the time of the signing of a certificate of completion it looms large as a major obstacle to be overcome, and the long schedule of items which have to be done at the end of this period is compiled with a much heavier heart.

I think we would all do well to keep this clause and all that it means prominently in mind as we go about our respective tasks in fulfilling our responsibilities under the building contract. The architect who with eagle eye spots minor faults in the course of supervision and has them put right whilst the tradesman is on the job; the builder who gives good measure for his specification; the foreman who takes precautions to protect his work as he goes along; the clerk of works who checks and watches with unceasing eye; all can spare themselves tedious hours of labour and toil with maintenance schedules which unhappily all too often provide the material for the last act of the building drama.

The purpose of this clause in the building contract is to allow the parts of our newly created building to settle down and live together during a period in which all of us who have been responsible for the



creation can observe and adjust any ill-fitting pieces. It is to be expected that something will need easing and something else will have to be lifted as settling down takes place, for however exact our modern constructional sciences may be, buildings must still perforce rest on 'mother earth' and she too needs time to learn to sit comfortably with the new building on her lap.

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*(continued from page 846)*

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**Mansion House Redecoration**

PROFESSOR H. O. CORFIATO, FRIBA, FSA, SADG, of 15, Woburn-square, London, WC1, is to be engaged as consultant to prepare an initial report on the redecoration of the Egyptian Hall and other rooms and staircases at the Mansion House in London.

**Development on the Walton Studios Site**

OUTLINE PLANS of a £1m. development scheme, which includes shops, offices and a car park, on the site of the seven-acre Walton Studios, Surrey, have been submitted to Walton Council by Park Investments Ltd. The company has bought the site for £250,000.

**Tenby Development Scheme**

TWO MULTI-STOREY CAR-PARKS, each for 1,000 cars, a conference hall and ballroom, and 14 maisonettes and shops are included in a £275,000 scheme which has been approved in principle by Tenby Borough Council. The development, planned for a 2½-acre site near the centre of the town, is aimed at easing the summer holiday traffic problem and making Tenby a leading conference town.

**Appointments**

MR. THOMAS CARTLIDGE, ARIBA, AMTPI, for the past five years chief architect to the Hemel Hempstead Development Corporation, has been appointed to the newly-created position of chief architect at Oldham. The new architectural department will be a merger of the present architectural staffs of the education and borough surveyor's departments.

MR. ALAN BROWN, BSC, AMICE, AMIMUNE, deputy borough engineer at Oldham since May, 1958, has been appointed borough engineer at Warrington.

**Building Surveyors at Dinner**

AN UNUSUALLY PLEASANT dinner and dance was held by the Building Surveyors Institute at the Waldorf Hotel, London, on April 28 with the President, Mr. S. C. Greatrix, in the chair. Good food and wine, lively speeches and music during dinner contributed to breaking down any barriers that might have existed between members and guests, enabling new friendships to be formed among the various sections of the building industry who were represented.

In addition to the President, speakers included Mr. Donald W. Wade, MP, the Liberal Whip in the Commons, who even his political opponents conceded made out a good case for some regulation of land values; Mr. J. D. Gilbert, Immediate Past President; Sir Robert Gransden, CBE, Agent of the Government of Northern Ireland in Great Britain; and Mr. George Grosvenor, CBE, Past President, NFBTE.

## *A Hundred Years Ago*

### From The Builder of May 4, 1861

THE COMING GREAT EXHIBITION.—When the idea of the second Great Exhibition was first started, many pooh-poohed it, believing that it would be difficult to create again the enthusiasm which was shown by all in 1851. However, when the determination was made, the waverers became steady, and of dissenters against the proposed plan of the Royal Commissioners we now hear nothing.

The concrete is now put in for the permanent part of the intended building: the great domes are staked out; and all the arrangements are now made for a fair start. Applicants for space have poured in during the last week. Not only in the great manufactories of our own nation, but in those throughout Europe, America, and our colonies, the busy note of preparation is heard, and thousands are now anxiously thinking how they can add to their own reputation and to the advancement of general civilisation.

## *Coming Events*

*FRIDAY, MAY 5*

INSTITUTE OF BUILDERS (MIDLANDS BRANCH). Film show. Grand Hotel, Birmingham. 7 p.m.

*SATURDAY, MAY 6*

INSTITUTE OF BUILDERS DISCUSSION CLUB (LIVERPOOL AND DISTRICT CENTRE).—Visit to the Fisher & Ludlow site, Kirkby, by courtesy of Cubitts. 10 a.m. (at site).

*MONDAY, MAY 8*

ARCHITECTS' BENEVOLENT SOCIETY.—Annual meeting. RIBA, 66 Portland-pl., W1. 3.45 p.m.

INSTITUTE OF BUILDERS.—Inaugural meeting of North Western Branch. Building Centre, Manchester. 7 p.m.

*TUESDAY, MAY 9*

SPUR.—'High Oxford Street,' and exhibition of drawings by N. Glover and L. Rudowski. Opening by Sir Wavell Wakefield. 11.30 a.m. Housing Centre, 13 Suffolk-st., SW1. Mon. to Fri.: 10 a.m. to 5.30 p.m. (until May 26).

LMBA (CENTRAL AREA No. 3).—Spring luncheon. Cutlers' Hall, EC4. 1 p.m.

BRITISH ELECTRICAL DEVELOPMENT ASSN.—Annual luncheon. Savoy Hotel, WC2. 1 p.m.

RIBA.—Annual meeting. 66 Portland-pl., W1. 6 p.m.

BUILDING SURVEYORS' INSTITUTE (REGION No. 2—MIDLANDS BRANCH).—Discussion: 'Contractual Conundrums.' Birmingham Exchange & Engineering Centre, Stephenson-pl., Birmingham. 1. 7 p.m.

*WEDNESDAY, MAY 10*

BUILDING CENTRE.—Exhibition of models and drawings sponsored by the Pestalozzi Children's Village Trust. Until May 20.

INSTITUTE OF MATERIALS HANDLING.—Second international conference. Southport (until May 12).

INSTITUTE OF BUILDERS DISCUSSION CLUB (NEWCASTLE AND DISTRICT CENTRE).—Visit to The Armstrong Cork Co. Ltd.'s factory at Kingsway South, Team Valley, Gateshead. 7 p.m. (at factory).

INSTITUTE OF BUILDERS DISCUSSION CLUB (BRIGHTON AND DISTRICT CENTRE).—'New Techniques in Building,' by Mr. D. Bishop. The Clarence Hotel, Brighton. 7.30 p.m.

*THURSDAY, MAY 11*

INSTITUTION OF CIVIL ENGINEERS.—Joint meeting with Institute of Landscape Architects: 'Collaboration Between Engineers and Landscape Architects,' by Messrs. C. S. Chettoe and G. A. Jellicoe. Gt. George-st., SW1. 5.30 p.m.

INSTITUTE OF BUILDERS DISCUSSION CLUB (BIRMINGHAM CENTRE).—Presentation of 1960 examination diplomas, by Mr. F. Russon, followed by lecture on 'Safety in Building,' by Mr. J. A. Hayward. Grand Hotel, Birmingham. 7 p.m.

ROSPA.—National Industrial Safety Conference. Scarborough. 8.30 p.m. (until May 14).

*SATURDAY, MAY 13*

INSTITUTE OF CLERKS OF WORKS OF GREAT BRITAIN.—79th Anniversary Dinner. Balmoral Suite, Connaught Rooms, WC2. 6.30 p.m.

## *Competition News*

### New Library for Trinity College, Dublin

THE NAMES of the architects awarded premiums in the international architectural competition for a new Library Building for Trinity College, Dublin, will be announced on June 8. On the same day an exhibition of the designs entered in the competition will open in the Long Room of the College Library at 4.15 p.m. Subsequently, the exhibition will be open to the public on weekdays from June 9 to 23, from 10 a.m. to 4 p.m. daily (Saturdays, 10 a.m. to 1 p.m.).

### New Buildings for University College, Dublin

ARRANGEMENTS are well advanced for the open architectural competition for the general lay-out of new University College, Dublin, buildings, and for the design of one block of the buildings, on a 252-acre site 2½ miles from the city centre. It is expected that the date of the competition, which is to be organised in accordance with the rules of the Royal Institute of Architects of Ireland and the International Union of Architects, will be announced within a month or so.

Proposals involving expenditure of about £6,700,000 on new buildings to have about 610,000 sq. ft. of floor space—or about three times that in existing UCD premises—have been approved in principle by the Eire Government which will contribute to the cost. The Eire Government will also take over the present UCD buildings at Earlsfort Terrace and Merrion-street, Dublin, which are estimated to be worth £1,500,000.

Irish and oversea architects are to be invited to compete There will be a first prize of £3,500 and others of £2,000, £1,000 and £500. The following have agreed to act as assessors:

Mr. Eoghan Buckley, BArch, FRIAI (Dublin), past president, Institute of Architects of Ireland; Professor W. Dunkel (Zurich); Professor Kay Fisker (Copenhagen); Professor Desmond FitzGerald, Professor of Architecture, University College, Dublin; Mr. G. MacNiocaill, BArch, FRIAI (Dublin), assistant chief architect, Office of Public Works in Ireland; Professor Robert Matthew (Edinburgh). Professor M. A. Hogan, Dean of the Faculty of Engineering and Architecture, University College, Dublin, will be chairman of the Board of Assessors. Mr. Matthew McDermott, BArch, MRIAI, ARIBA, lecturer in architecture, University College, Dublin, is to act as registrar to the Board of Assessors.

# More Everyday Things

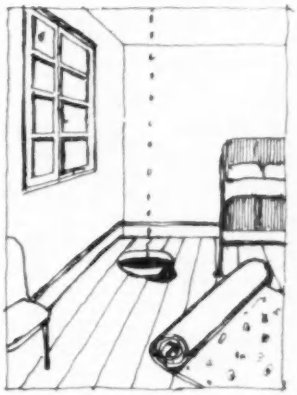
BY ARTHUR W. KENYON, CBE, FRIBA

## 40. Defects Liability Period

'DEFECTS LIABILITY PERIOD: six months.' These ominous words appear in the appendix to most building contracts. At the time of the signing of the contract and the initial preparations for work, the clause is filled in light-heartedly as one of the minor formalities. At the time of the signing of a certificate of completion it looms large as a major obstacle to be overcome, and the long schedule of items which have to be done at the end of this period is compiled with a much heavier heart.

I think we would all do well to keep this clause and all that it means prominently in mind as we go about our respective tasks in fulfilling our responsibilities under the building contract. The architect who with eagle eye spots minor faults in the course of supervision and has them put right whilst the tradesman is on the job; the builder who gives good measure for his specification; the foreman who takes precautions to protect his work as he goes along; the clerk of works who checks and watches with unceasing eye; all can spare themselves tedious hours of labour and toil with maintenance schedules which unhappily all too often provide the material for the last act of the building drama.

The purpose of this clause in the building contract is to allow the parts of our newly created building to settle down and live together during a period in which all of us who have been responsible for the



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# Productivity and Prices

## 'The Builder' Quarterly Analysis of Trends

*Specially prepared for 'The Builder' by Professor C. F. Carter, Stanley Jevons Professor of Political Economy, University of Manchester, and former member of the Girdwood Committee on Cost of Housing, from statistics kindly supplied by the Ministry of Works (Statistical Branch).*

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THE REVISIONS in the building output figures made this quarter somewhat reduce the rises earlier recorded for the middle quarters of 1960, but restore the trend by a sharp increase in the last quarter to a level about 7 per cent higher than twelve months earlier. Housing work is now seen to have reached its peak in the second quarter of 1960, but shows only a slight decline since; new non-housing work remains extremely buoyant with an increase of 12 per cent between the fourth quarters of 1959 and 1960. The 'Economic Survey, 1961,' observes that during 1960 a 'considerable pressure' developed on the building industry, that investment in general (inevitably containing a large building element) will rise rapidly in 1961, and that (in particular) the number of private houses started will rise again this year.

There is no early prospect that the pressure on the industry will be reduced. The labour force increased by 30,000 (or 3 per cent) during the year ended last January, but this was proportionately much less than the rise in production, and net output per man-month showed further increases, both for housing and for other new work. This means that the pressure on the industry was still of a kind which tends to improve productivity; despite some material shortages, labour was not in general being forced to stand idle waiting for deliveries.

The increases widely reported in building tender prices (amounting to 10-12½ per cent over the past year) are related to the fact that a further substantial increase in wages (in part offset by altered working arrangements) is due to take effect next October. No-one quite knows what the net effect of the change will be, but it is natural (in a situation of high employment) that builders should try to make sure of covering the increase. The industry also has to carry the recent increases in National Insurance contributions, while the power (proposed in the Budget) to apply a small 'payroll' tax of up to 4s. per worker would also have a noticeable effect on an industry which is a heavy employer of labour.

The effect of next October's increase in wages is partly shown in Mr. Venning's index of building costs ('The Builder' of February 3) which shows an increase from 373 in May, 1960, to 384 in February, 1961, a change stated to be 'greater than is justifiable by the actual increase in

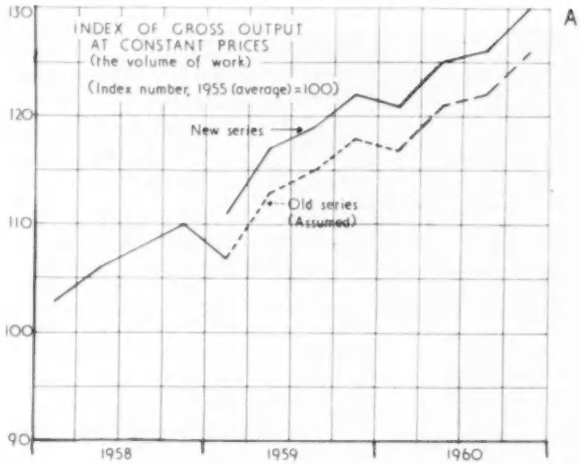
TABLE A.—OUTPUT OF THE BUILDING AND CIVIL ENGINEERING INDUSTRY IN GREAT BRITAIN (excluding direct work of Public Authorities)

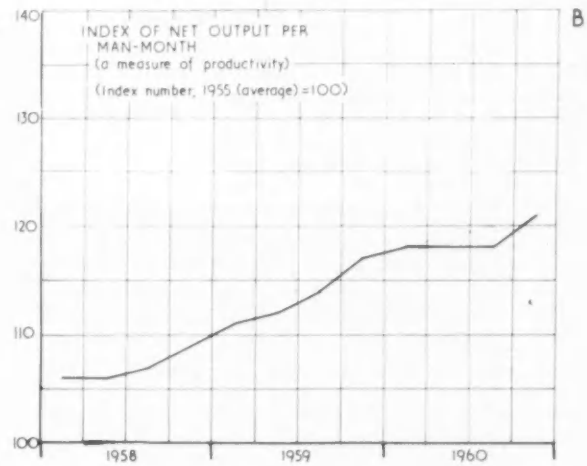
| | Actual value of gross output | Values at 1955 average prices | | | Indices, 1955 (average) = 100 (constant prices) | | |
|---|---|---|---|---|---|---|---|
| | | Gross output | Net output | Input of materials | Gross output | Materials input per man-month | Net output per man-month |
| | £ mn. | £ mn. | £ mn. | £ mn. | | | |
| TABLE 1.—*New housing work* | | | | | | | |
| 1956* ... ... | 142 | 135 | 60 | 75 | 99 | 105 | 103 |
| 1957* ... ... | 138 | 130 | 58 | 72 | 95 | 109 | 109 |
| 1958* ... ... | 129 | 121 | 53 | 68 | 88 | 115 | 111 |
| 1959 I ... ... | 132 | 126 | 55 | 71 | 92 | 124 | 117 |
| II ... ... | 140 | 132 | 59 | 73 | 96 | 119 | 118 |
| III ... ... | 146 | 139 | 61 | 78 | 101 | 126 | 122 |
| IV ... ... | 150 | 145 | 64 | 81 | 105 | 131 | 125 |
| 1960 I ... ... | 147 | 143 | 64 | 79 | 104 | 128 | 126 |
| II ... ... | 161 | **151** | **67** | **84** | **110** | **132** | **129** |
| III ... ... | 160 | **148** | **67** | **81** | **108** | **125** | **128** |
| IV ... ... | **161** | **150** | **67** | **83** | **109** | **134** | **130** |
| TABLE 2.—*New non-housing work* | | | | | | | |
| 1956* ... ... | 192 | 184 | 87 | 97 | 119 | 106 | 107 |
| 1957* ... ... | 208 | 192 | 91 | 101 | 123 | 106 | 108 |
| 1958* ... ... | 222 | **198** | 93 | **105** | 128 | 110 | 108 |
| 1959 I ... ... | 225 | 207 | 96 | 111 | 133 | 117 | 114 |
| II ... ... | 239 | 217 | 101 | 116 | 139 | 118 | 116 |
| III ... ... | 243 | 221 | 103 | 118 | 142 | 120 | 118 |
| IV ... ... | 239 | 221 | 104 | 117 | 143 | 122 | 121 |
| 1960 I ... ... | 236 | 221 | **104** | **117** | 142 | 124 | 123 |
| II ... ... | 253 | **228** | **107** | **121** | **147** | **124** | **123** |
| III ... ... | 263 | **236** | **111** | **125** | **152** | **125** | **125** |
| IV ... ... | **272** | **248** | **115** | **133** | **160** | **133** | **129** |
| TABLE 3.—*Repair and maintenance work* | | | | | | | |
| 1956* ... ... | 100 | 93 | 63 | 30 | 101 | 107 | 101 |
| 1957* ... ... | 101 | 90 | 62 | 28 | 98 | 105 | 100 |
| 1958* ... ... | 104 | 91 | 62 | 29 | 99 | 106 | 100 |
| 1959 I ... ... | 107 | 94 | 63 | 31 | 103 | 111 | 101 |
| II ... ... | 117 | 99 | 65 | 34 | 108 | 123 | 101 |
| III ... ... | 118 | 99 | 67 | 32 | 108 | 112 | 101 |
| IV ... ... | 120 | 103 | 66 | 37 | 112 | 128 | 102 |
| 1960 I ... ... | 117 | 100 | 65 | 35 | 110 | 127 | 102 |
| II ... ... | 122 | **99** | 66 | **33** | **108** | **117** | 101 |
| III ... ... | 128 | **101** | 67 | **34** | **111** | **120** | 101 |
| IV ... ... | **126** | **102** | **66** | **36** | **111** | **124** | **101** |
| TABLE 4.—*All building and civil engineering work* | | | | | | | |
| 1956* ... ... | 434 | 412 | 211 | 201 | 107 | 107 | 104 |
| 1957* ... ... | 447 | 412 | 212 | 200 | 107 | 108 | 106 |
| 1958* ... ... | 455 | 410 | 208 | 202 | 107 | 111 | 107 |
| 1959 I ... ... | 464 | 427 | 214 | 213 | 111 | 118 | 111 |
| II ... ... | 496 | 448 | 225 | 223 | 117 | 119 | 112 |
| III ... ... | 507 | 459 | 231 | 228 | 119 | 120 | 114 |
| IV ... ... | 509 | 469 | 234 | 235 | 122 | 126 | 117 |
| 1960 I ... ... | 500 | 464 | **233** | **231** | 121 | 126 | 118 |
| II ... ... | 536 | **478** | **240** | **238** | **125** | **125** | **118** |
| III ... ... | 551 | **485** | **245** | **240** | **126** | **124** | **118** |
| IV ... ... | **559** | **500** | **248** | **252** | **130** | **131** | **121** |

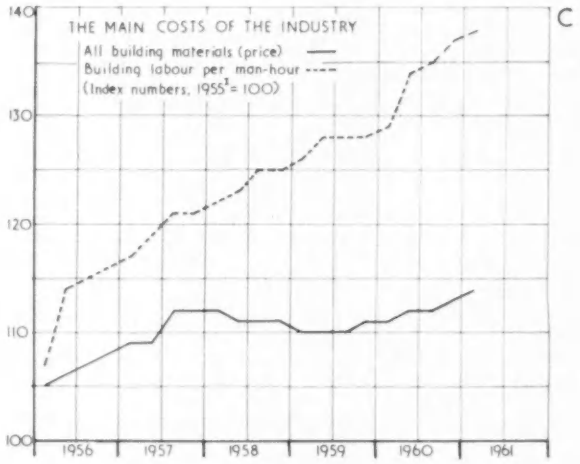
TABLE B.—PRICE COMPARISONS
Index numbers (1955 First Quarter = 100) of the prices of:

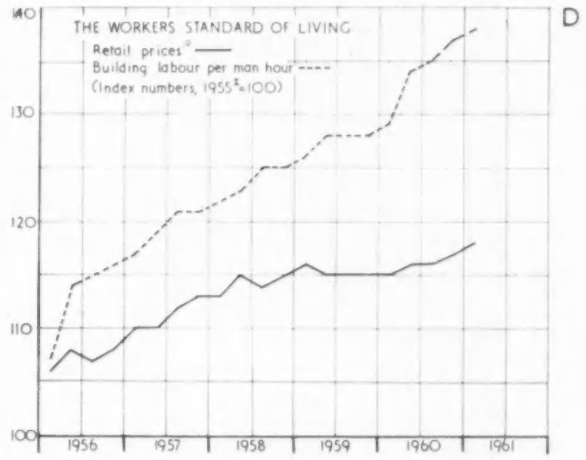
| | All building materials | Materials for housing | Building labour per man-hour | Output price indices: All building | Output price indices: Housing work | Output price indices: New non-housing work | Manufactures, 'Output' price index | Retail prices |
|---|---|---|---|---|---|---|---|---|
| 1953*... | 97 | 96 | 93 | 97 | 97 | 97 | 99 | 96 |
| 1954*... | 97 | 97 | 97 | 97 | 97 | 98 | 100 | 98 |
| 1955*... | 102 | 102 | 104 | 103 | 103 | 103 | 101 | 102 |
| 1956*... | 107 | 106 | 113 | 108 | 108 | 107 | 106 | 107 |
| 1957*... | 111 | 109 | 119 | 112 | 109 | 112 | 109 | 111 |
| 1958 I | 112 | 109 | 122 | 114 | 111 | 114 | 110 | 113 |
| II | 111 | 109 | 123 | 114 | 110 | 114 | 110 | 115 |
| III | 111 | 108 | 125 | 114 | 110 | 115 | 110 | 114 |
| IV | 111 | 108 | 125 | 114 | 109 | 114 | 110 | 115 |
| 1959 I | 110 | 108 | 126 | 113 | 108 | 113 | 110 | 116 |
| II | 110 | 108 | 128 | 113 | 108 | 112 | 110 | 115 |
| III | 110 | 108 | 128 | 113 | 107 | 111 | 110 | 115 |
| IV | 111 | 108 | 128 | 112 | 107 | 111 | 110 | 115 |
| 1960 I | 111 | 109 | 129 | 113 | 107 | 111 | 110 | 115 |
| II | 112 | 110 | 134 | 115 | 108 | 112 | 111 | 116 |
| III | 112 | 111 | 135 | 115 | 109 | **112** | 112 | 116 |
| IV | 113 | 112 | **137** | 116 | 110 | 112 | 112 | 117 |
| 1961 I† | **114** | **113** | **138** | **117** | **111** | **113** | **113** | **118** |

* Quarterly average. † Not Ministry of Works estimates.
In both tables figures in **bold type** have been changed or added since last quarter.

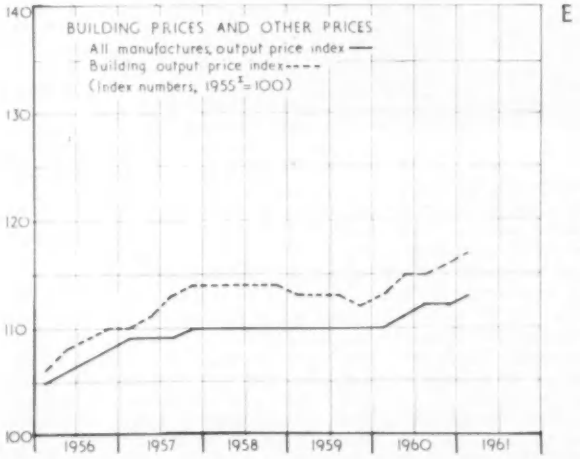



wages and materials at the present date.' The nearest equivalent in our tables is the index for new non-housing work, which is shown as 112 for the second quarter of 1960 and 113 in the first quarter of 1961. It looks as though a third to a half




of the increase in tender prices reported by Mr. Venning has been caused by cost increases which have already occurred, and the rest by those which are still feared—together, of course, with any allowance for extra disorganisation due to difficulty in getting labour, and any allowance for extra profits at a time of high demand.

Table B shows the general tendency for prices of materials to drift upwards, and the parallel tendency for both retail and wholesale prices to increase. The extra one point increase shown for the building price indices in the first quarter is conjectural, because it is not yet known what further changes are taking place in productivity. The Budget has probably given an undeserved impression of laxity because of the concessions to surtax payers. It was in fact on balance quite a stern Budget, and there so far seems little likelihood that the pressure of consumer demand during the next few months will allow anything beyond a very slow increase in retail prices.

We may therefore be in one of the periods in which building costs and prices will be rising noticeably faster than the general price level. The building owner will no doubt find, also, that the overload on the industry is reflected in a lengthening of times to completion (though no such change is yet shown in the figures of houses under construction). But there is little likelihood that either higher prices or longer construction times will do much to choke off the demand, so much of which is for Government or is a natural product of Government measures.

# Societies

## Faculty of Architects and Surveyors

THE FIFTH ANNUAL DINNER of the north-west branch of the Faculty of Architects and Surveyors was held at the University Club, Mount Pleasant, Liverpool, on April 14. The chairman, MR. A. MAXWELL CAPLIN, MBE, FFS, welcomed a large gathering of members and guests, among whom were Sir Eric Errington, MP, JP, and Lady Errington; the president, Mr. W. R. Cubitt and Mrs. Cubitt; and the secretary, Mr. H. M. Soar and Mrs. Soar.

Proposing the toast of 'The Branch,' SIR ERIC ERRINGTON dealt with town and country planning and appealed for a more dynamic approach, suggesting that houses should be built for letting. He thought that with careful planning the cost could be cut down to as little as £1,250 per house, exclusive of the cost of land. The new Housing Bill, he continued, proposed a change in subsidies which he felt should only be given to those who needed them. Another point was that the granting of these subsidies would depend on whether the local authority was able to balance its budget or not.

Other speakers included MR. CAPLIN, who submitted the response. MR. FARRELL, FFS, honorary secretary of the branch, who proposed the toast of 'The Guests,' and the PRESIDENT, who replied.

## RICS Meeting

'THE PRESENT RANGE of building materials and techniques has greatly increased freedom of design, but variety has increased the difficulty of determining which combination provides the best value for money.' This was one of the points made by MR. P. A. STONE, MSC, an economist at the Building Research Station, in an address to a meeting of the Royal Institution of Chartered Surveyors in London on April 19. 'Value for money is the useful everyday concept by which people determine their purchases,' he said. 'Often the concept is applied very roughly, in the absence of adequate information, but it will generally be agreed that buildings absorb far too great a part of our resources for such crude methods to be acceptable, and a systematic approach is essential.'

Mr. Stone went on to explain the concept of 'costs in use,' in which the initial costs and the running costs of a building were reduced to a single figure of annual cost. Using this method, the Building Research Station had made studies of the economics of various building designs, and in his paper the speaker gave examples of its application to factory design. For example, one cladding which initially cost 20 per cent more than an alternative had 'costs in use' of little more than a half those of the alternative.

Finally, the speaker stressed that while the use of a formal technique and the inclusion of running costs might appear to increase the difficulty and uncertainty of cost planning, in reality it only exposed difficulties and uncertainties already present.

## Recent Land Sales

*High Prices for Building Sites*

FROM A PROPERTY CORRESPONDENT

AMONG recent sales of building sites, 4½ acres at Chigwell Row, Essex, have changed hands through Strutt & Parker's agency, at £55,000, which works out at £1,200 per house site at the permitted density. The purchasers were Messrs. Wimpey & Co.

Stewart & Clarke report the sale of a site for six maisonettes at 1 Uxbridge-rd., Hanwell, at £6,845; and 186 Malden-rd., New Malden (in conjunction with Faulkner & Co.), at £6,500 for the house and ½ acre with planning permission for six flats.

A maisonette site of 1½ acres in Bath-rd., Reading, has changed hands through John D. Wood & Co., in conjunction with Geo. Head & Co., at £37,000 by auction.

The notable Magnolia Wharf sale at Chiswick, where Tyser Greenwood & Co., the auctioneers, realised £40,000, was at the rate of £66,666 per acre, being three-fifths of an acre, with river and road frontages, ripe for flat development of 50-60 flats.

Field Nurseries, Chingford, a site with planning permission for 28 two bedroomed flats, and garages, was sold by Harold E. Levi & Co., by auction, for £15,000.

Jackson Stops & Staff disposed of Ardoch, 371 Cockfosters-rd., Hadley Wood, prior to auction, the price not being disclosed but being understood to exceed £20,000.

Bradley & Vaughan report the sale of five acres at Horley with planning permission for 10 houses per acre, at £45,000.

No. 10 Carteret-st., Westminster, sold by D. E. & J. Levy, a site with planning permission for office development, fetched £64,000, though only of 1,025 sq. ft.

## Work by Private Architects

*North Riding EC's Decision*

NORTH RIDING EDUCATION COMMITTEE was told on April 4 by CLLR. T. R. DALTON that he considered far too much work was being put out to private architects instead of being done by the council staff. He said: 'It is costing the ratepayers a tremendous amount of money and there is a growing feeling that the designs of new schools and other buildings should be done by our own architects instead of being placed outside.' He believed this would be one way to meet the constant demands from ratepayers to save money and counter rising costs.

ALD. R. S. BUTTERFIELD, the chairman, said however, that the committee was spending about £500,000 a year, and their own architects could design only about £250,000 worth of new buildings. 'The question of recruiting more architects is very difficult,' he said. 'If we were to build up the department to deal with all our present work, we might be landed in the future with two or three times as many as we would have work for.'

The committee approved a proposal for private architects to be appointed to design nine new schools and youth clubs.

## Building in the City

*Brooks Wharf War Damage Rebuilding Scheme Approved*

PERMISSION for the rebuilding of a war damaged block at Brooks Wharf, Upper Thames-st., for use as warehouse, offices and showrooms was given, subject to certain conditions, by the Court of Common Council on April 27 (Kersey, Gale and Spooner, architects and surveyors, Vintry House, Queen St.-place, EC4). The conditions were to ensure conformity with building lines and the free flow of traffic.

Drawings for loading and unloading arrangements and a reconstructed stone screen wall at the north end of the tower block were approved for a new warehouse, and 140,000 sq. ft. or more gross floor space, with offices and shops, one licensed premises and four residential units in a penthouse. (M. Sanders, FRIBA, and Associates, 24 Harley-st., W1.)

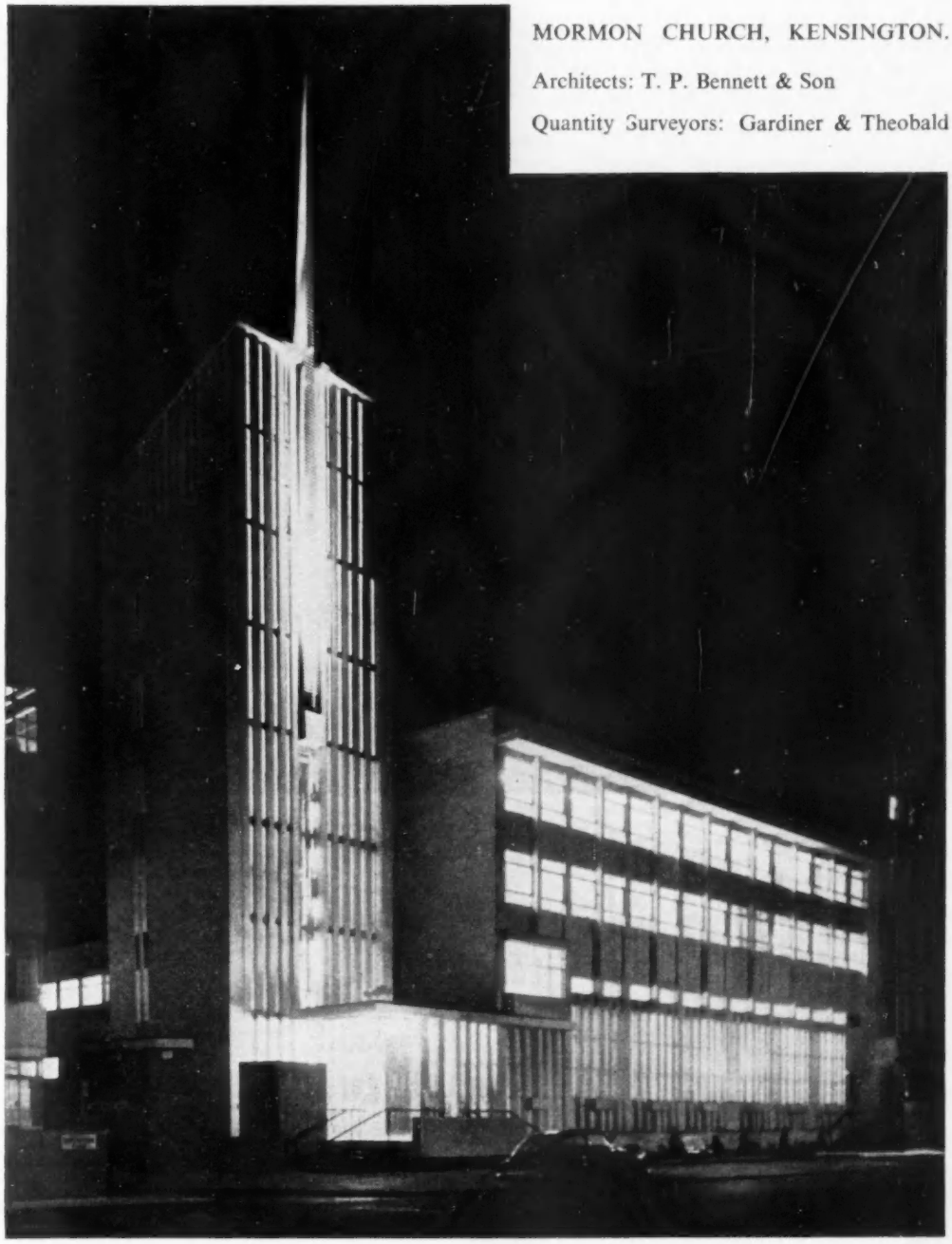
This will be at 24 to 40 Fore-street, 2 to 21, 128c to 133 (and part) London Wall, 53 to 62 Wood-street, 6 to 14 Aldermanbury-avenue, 12 (and part) Philip-lane, 42, 45 (and part) Aldermanbury, 1 to 9 and Aldermanbury Postern, 1 to 8 and New Basinghall-street.

### Other Approvals

Approval was given of drawings for details of projections over the public way for the erection of an office building with four retail shops, licensed premises and a bank on the ground floor at 24 to 32 King William-street, 3 to 16 Crooked-lane, and 2 Arthur-street (Knapton and Deane and Partners, 6 Martin-lane, EC4). The Council decided to inform the applicant that the drawings for the licensed premises were not approved.

Approval was given to drawings of the details of a revised sub-basement plan for the erection of an office building, comprising basement car park, ground floor and seven storeys over, at 9 to 13 Goldsmith-st., 3 to 7 Gutter-lane and 125 to 127 Wood-st. (Knapton and Deane and Partners, 6 Martin-lane, EC4).

Drawings were approved for the new layout of a car park of an ancillary building for use in connection with printing works of the Times Publishing Co., Ltd., on the site bounded by Queen Victoria-st., St. Andrews-hill, Ireland-yard, Playhouse-yard and Blackfriars-lane (Ellis, Clarke and Gallannaugh, chartered architects, 37 Soho-sq., W1).



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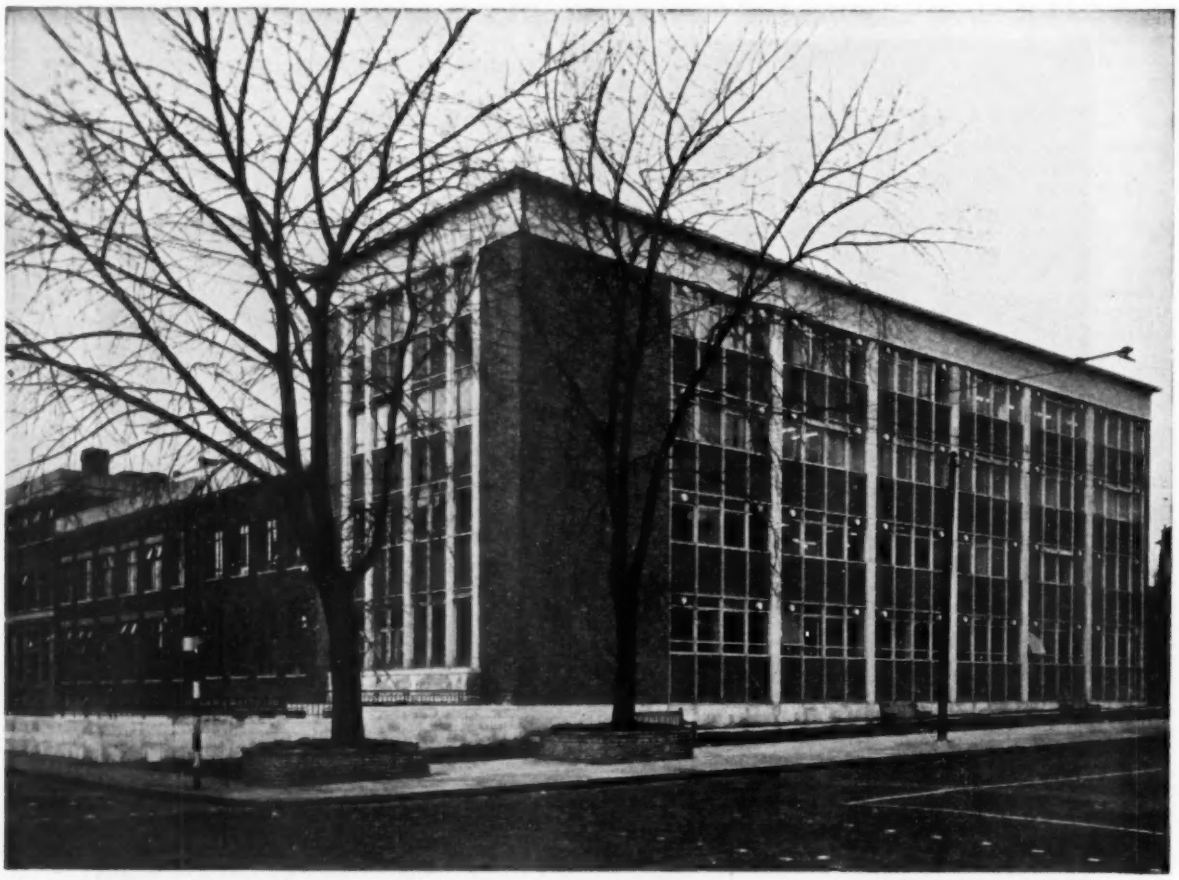

*Architect:* J. Francis Smith, F.R.I.B.A., F.R.I.C.S.

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# The Week in Parliament

From Our Own Correspondent

## Road Improvement Schemes

LOCAL AUTHORITIES in England and Wales have been informed by MR. ERNEST MARPLES, Minister of Transport, of the road improvement and construction schemes which he was prepared to consider for grant in the first three years of the five-year £150m. classified roads programme which he first outlined to the Commons last July. Total Government contribution to the schemes for these three years is over £100m., most of which will be for improvements designed to relieve urban congestion. Roughly one-third of the total is earmarked for each of the three years.

The position is that county councils and county boroughs are now being given rolling programmes of road works, beginning with a list of schemes which can be considered for grant for the three years 1961-62, 1962-63 and 1963-64. Later this year a similar list of schemes will be given for 1964-65 and in 1962 a similar list for the fifth year of the programme, 1965-66, thus giving highway authorities three years' notice to get ahead with preparations.

Highway authorities were invited to submit lists of the classified road schemes costing more than £100,000 which they would like to carry out in the next few years. They have now been informed which of these schemes the Minister has decided to invite for grant in 1961-62 (in addition to those already notified), 1962-63 and 1963-64 respectively. At the same time, they are invited to make formal application for grants in respect of these schemes with the usual supporting data. These applications will be examined as quickly as possible by the Ministry so that highway authorities can plan starting dates in advance.

For 1961-62, highway authorities have already been informed by the Ministry's divisional road engineers of the schemes costing less than £100,000 which it will be possible to consider for grants. For the next two years, divisional road engineers will be given a bulk financial allocation within which schemes can be selected.

Separate and special consideration is being given under the programme to the conurbations of South-East Lancashire, the West Riding of Yorkshire, the West Midlands and Tyneside. Schemes in these areas are being selected with the co-operation of the highway authorities with a particular eye to the traffic needs of each area as a whole. The classified roads programme in the LCC area is being planned on the basis of an annual expenditure of £10m.

Among the larger schemes in the rolling programme which will be considered for grant in 1961-62 are (the figure in brackets represents the Government grant):

London, Blackfriars Bridge underpass (£2,175,000); London, Old-street/City-road (£1,785,000); London, Euston-road (£575,000); Salford Broad-street improvement (A.6) (£945,000); Oldham southern internal by-pass (A.62) (£933,000); Birmingham Holloway Circus inner ring road (£904,000); Birmingham Hockley Hill flyover (£900,000); Birmingham Six Ways Aston (£791,000); Newport (Mon.) second bridge (£788,000); Nottingham inner ring road (£750,000); Leeds inner ring road (£705,000); London, Gardiner's Corner (£667,500); Leicester central ring road (£620,000); London, Kingsway Tunnel (£600,000).

Bromsgrove-Stourbridge (A.491) (Worcestershire) £562,500; Horsham by-pass (West Sussex) (£555,000); New road, Ellesmere Port to A.41 (Cheshire) (£480,000); Norwich St. Stephens-street widening (£450,000); London, Aldgate High-street to Gardiner's Corner (£375,000); Gateshead-Durham-road to Felling by-pass link (£375,000); Bristol, Bedminster Bridge duplication (£323,000); Halifax - Huddersfield (A.629) (£300,000); Leeds-Bradford (A.647) (£300,000); London, Cannon-street railway bridge (£300,000).

*Schemes to be considered for grant in 1962-3 include:* London: Harrow-road/Marylebone-road (£3,742,500); London: Finchley-road (£2,812,500); Sevenoaks by-pass, Kent (£1,875,000); Bristol, Cumberland Basin scheme (£1,725,000); London, Bow Bridge intersection (£1,245,000); Birmingham, Colmore Circus (£1,102,000); Runcorn-Widnes Bridge approach to Speke Boulevard (Lancashire) (£825,000); Doncaster inner relief road (part) (£503,000).

Birmingham Rubery by-pass flyover (A.38) (£487,500); Ipswich inner ring road (£461,000); Chalfont St. Peters by-pass (Bucks.) (£413,000); Northampton Bridge-street bridge (£375,000); Holmwood Diversion (A.24) (Surrey) (£345,000); Birmingham Great Charles-street ringway (£307,000); Bridgend inner by-pass (A. 473) (Glamorgan) (£263,000); Pontypridd town centre diversion (Glamorgan) (£263,000).

*Schemes to be considered for grant in 1963-4 include:* London, Westway to Holland Park-avenue (£4,200,000); Birmingham, Masshouse Circus (£3,000,000); Eton-Windsor relief road (A.332) (£1,999,000); London, Vauxhall Cross (£1,987,500); Croydon Barclay-road extension and bridge (£942,000); Wolverhampton inner ring road (part) (£750,000); Sheffield civic circle road (£683,000); Durham City relief road (£525,000); Hull Anlaby-road bridge (£515,000).

Plymouth link road to Cobourg-street (£500,000); London, Marylebone - road (£472,500); Alderley by-pass (A.34) (Cheshire) (£450,000); Southampton Redbridge-road widening (A.35) (£450,000); Sunderland inner ring road (£339,000); Preston Watery-lane extension (Ashton by-pass) (£330,000); Blackburn Church-street improvement (£300,000); Cardiff Newport-road widening (£263,000).

## Welsh Development Problems

SPEAKING in his capacity as Minister for Welsh Affairs, MR. HENRY BROOKE uttered some cautionary words in the Commons on April 14 over the establishment of a new town in mid-Wales. Replying to a debate on depopulation and unemployment in mid-Wales, MR. BROOKE said he seriously believed that if at this stage of things the Government were to announce that a new town of massive size was to be started, either at Caersws or anywhere else in mid-Wales, that would immediately kill the efforts they were making to get industry into small towns. They had certainly seen the pulling power where new towns had been started elsewhere in Britain.

Before he would lend his support strongly to a Government new town for Wales, he would first like to see them a long way further ahead with the building up of the economy of the existing towns. He could not promise that industrialists would go to such a new town. The Government had been seeking to encourage and induce industrialists to move out of Birmingham and the West Midlands for a number of years and had found them very hard to budge.

He had seen from his own experience that it was by no means a foregone conclusion that if one started a new town sufficient industry would go there. He thought they had things right in each of the existing new towns but in past years they had had some very anxious moments with one or two of them. He had not rejected the idea of a new town in Mid-Wales. He could not say what might come of the future. He felt that if people said there was no hope for mid-Wales except through a Government new town they might find themselves in a position of damaging rather than assisting the existing communities of mid-Wales.

MR. BROOKE said that new factories were to be built with Development Commission funds at Rhayader and Lampeter and there was a project under consideration for Knighton. He doubted whether he would support the idea of another advance factory anywhere in mid-Wales until they had found a tenant for the one to be built at Pembroke Dock.

## Policy on National Parks

THE NATIONAL PARKS COMMISSION hoped to designate the Sussex and Hampshire Downs as separate areas of outstanding natural beauty, stated EARL JELLICOE, replying to a debate on the national parks in the Lords on April 19. But he added that the Commission took the view that the Solent area did not qualify for designation since these shores were not 'an extensive tract of country.'

However, the Commission hoped to designate much of the coastal strip on both the Hampshire and the Wight sides as an area of outstanding natural beauty. In addition Hampshire County Council had put forward a project for a green belt to include most of the Hampshire Solent coast. It would be seen therefore that the Commission and local authorities had special concern for this special strip of coastline.

Absolute preservation of landscape was, in the Government's view, an unrealistic ideal and might even be an undesirable aim as they would not wish the parks to become fossilised museums. The voluntary forestry scheme which had been drawn up should be given a fair trial. The policy was to permit the siting of power stations in national parks or areas of outstanding natural beauty only if the Ministers of Power and of Housing and Local Government were quite certain that suitable sites could not be found elsewhere.

Many undesirable things were avoided

by the Commission's unremitting attention to development proposals. They must be careful what they do to the parks. They were a retreat from the rush and vulgarity of the urbanised, motorised, televised 20th century. In developing the parks they must be careful to preserve their essential characteristics. There might be need for more facilities and better facilities for sports and hobbies, for camping and caravanning, in the right places, for riding, sailing, rock climbing, adventure training, archaeology and other forms of nature study. The time might now have come for the parks to enter a new and more positive phase of their history.

In the near future the Minister should be in a position to see what could be done over and above existing programmes and to decide how far this called for new legislation and more money from the Exchequer.

## The Housing Bill

THE DETAILS of the Housing Bill are now being considered by a Standing Committee of MPs who are meeting three times a week, and at the committee's fourth sitting on April 20, MR. HENRY BROOKE, Minister of Housing and Local Government, declared that there was no intention on the part of the Government, as soon as the Bill was on the Statute Book, to use the power to abolish the housing subsidies.

Labour MPs had expressed deep misgivings about the power given to the Minister by the Bill to abolish or reduce the subsidies by order without recourse to legislation. MR. BROOKE indicated that the Government thought they had the subsidies right in the Bill for present circumstances, and if there had been any intention suddenly to abolish them soon after the Bill reached the Statute Book, though there had been no material change of circumstances, the Government would have said so.

'It is extremely difficult to forecast all that might happen,' said Mr. Brooke, 'but what I want to say with all the force at my command is that the Government have nothing whatever in mind in the direction of the early abolition of these subsidies. We are taking stock of the position as it is at present. One cannot foresee indefinitely ahead . . . there is no intention whatever to use this power at an early date.'

In drafting the Bill he had had in mind that the power to abolish or reduce subsidy should be used if there were some major change of circumstances affecting the country or if a situation arose where in some area or region there seemed no longer to be a case for the granting of subsidies to local authorities, either in relation to particular types of houses or, conceivably, in relation to their houses as a whole, though he certainly did not foresee the withdrawal of all subsidies in this way. This was a selective power.

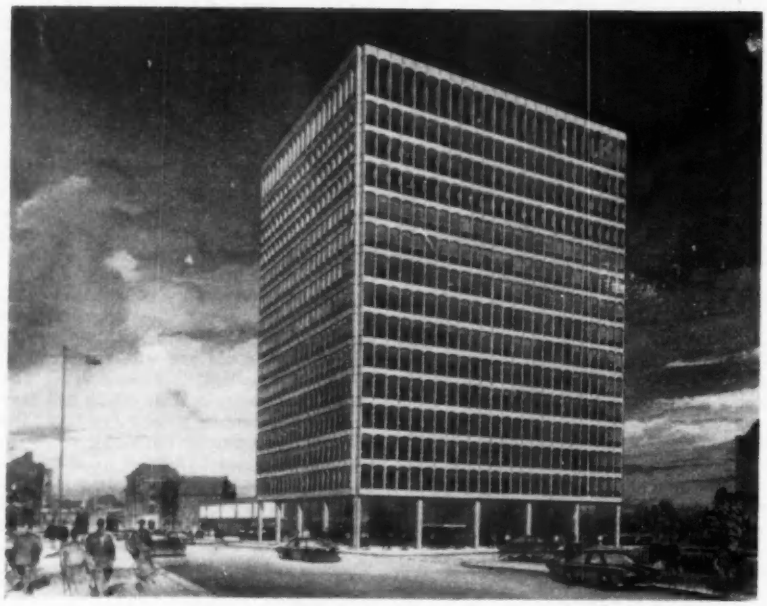
When the committee debated the functions of housing associations, SIR KEITH JOSEPH, Parliamentary Secretary, said the Minister had no sinister motive in the encouragement he sought to give to housing associations. What he had in mind was to encourage housing associations in appropriate cases to supplement the work of local authorities but without reducing in any way the efforts and contributions already made by local authorities.

There were two main classes of work that they expected housing associations to fulfil in future. On the one hand there was their work to supplement local authority housing and on the other, there was their work, which they hoped would increase, in complementing local authority housing.

Replying to Opposition criticism of the power in the Bill enabling him to abolish or reduce by order in 10 years' time, subject to affirmative resolution of Parliament, the subsidies being paid under the Bill, MR. BROOKE explained that the Bill was animated by the general idea that they should redeploy money that became available so that it would bring the maximum advantage to those local authorities which needed it. There was no question of interfering with the subsidy on houses built under some previous Acts.

There was no intention whatever of using the power to hold up slum clearance or the future building programme of any authority which really needed subsidies. Rather the intention was to try and protect the taxpayer from having to pay for the full 60 years a subsidy which was perhaps fixed many years ago. In the absurd position in which they were now, they had to go on paying for another 38 years the rate of 2s. 1d. a week in subsidy from the taxpayer on houses built in 1939 which could be let without subsidy at 22s. a week.

NEW BRISTOL BUILDING.—*A perspective of the £1m. 15-storey building to be erected at the corner of Redcliffe and Victoria-streets, Bristol, as the headquarters for the E. S. & A. Robinson group of companies. The building was designed by the company's architects' department headed by Mr. John E. Collins, FRIBA; the final designs were submitted to Sir Basil Spence, RA, PPRIBA, who commented that the building was of an 'exceptionally high' standard. The quantity surveyor is Mr. E. T. Wraight, and Sir Robert McAlpine & Sons Ltd. are responsible for the structural design and will be the main contractors*

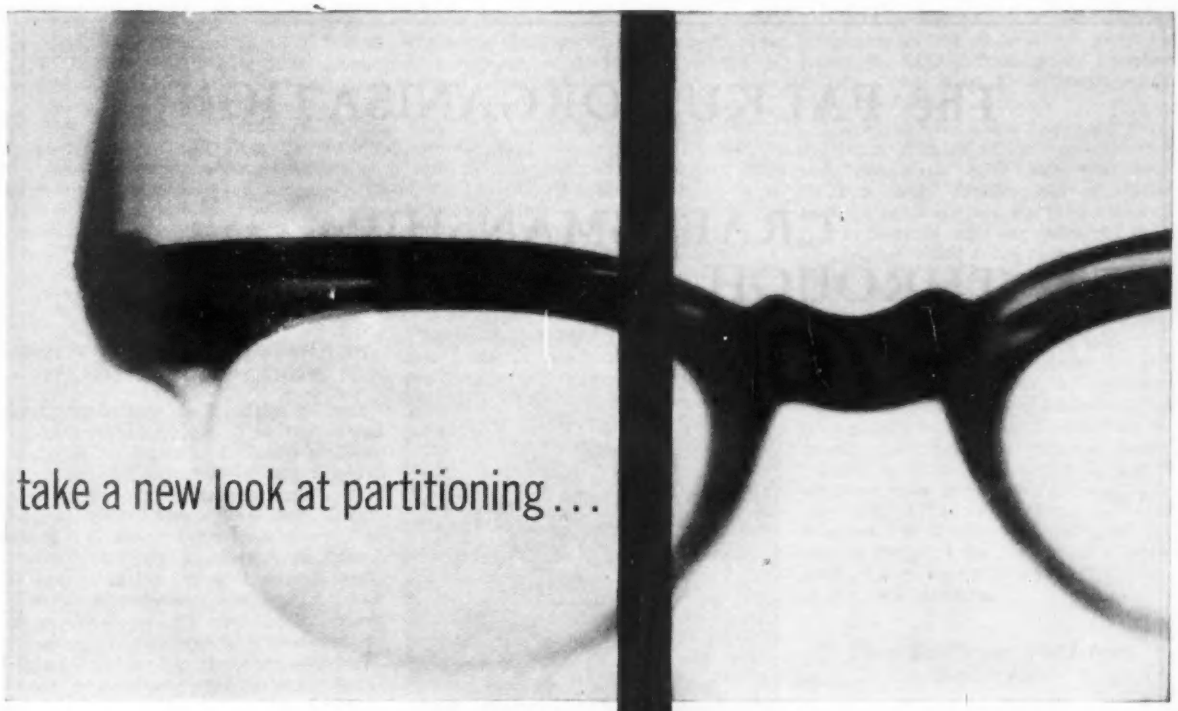


## Development of Railway Property

THE REPORT of the Select Committee on Nationalised Industries which made a detailed study of the functioning of British Railways referred to the statutory restrictions on property development by the railways and to the action the British Transport Commission had taken to make good use of their property assets.

They recommended that the utmost use should be made of these assets, and in his comments published as a White Paper on April 21, MR. ERNEST MARPLES, Minister of Transport, indicated that the views of the Select Committee were accepted, not only in relation to the railways, but also as applying to all the activities of the BTC. The Minister said that under the Government's new proposals for the various undertakings, a specially equipped organisation or organisations would be set up to advise the Statutory Boards and the Companies, and to act for them as necessary, in matters of property development and the transfer or disposal, from time to time, of such of it as was no longer required for operational purposes. Statutory restrictions on property development would also be suitably relaxed.

Legislation will be needed to enable the transport undertakings fully to develop their property (writes our correspondent)

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and it is expected that this will form part of the major Bill expected to be introduced next session to give effect to the Government's proposals for the new structure, financial reconstruction, and freedom of commercial operation of the transport undertakings. Many people will welcome the relaxing of the restrictions on property development, as the railways have been unable under the existing state of affairs to make the best use of their valuable sites. And, of course, the relaxation should provide a welcome source of revenue for the railways.

## Destruction of Buildings of Architectural Merit

THE DESTRUCTION of buildings of architectural merit was raised in the House of Lords on April 25 by LORD BOSSOM. He asked the Government whether any gain or benefit to the community was created when bodies like the Crown Estate Commissioners destroyed or allowed perfectly satisfactory buildings of some architectural or historical merit to be destroyed, even when they formed an effective part of a larger architectural grouping, and permitted these to be replaced by far less attractive structures which in time inevitably became a magnet for road vehicles in the already overcrowded arteries in their neighbourhood.

The EARL OF DUNDEE, Minister without Portfolio, stated: 'The replacement of some of our older buildings is inevitable as part of the redevelopment of central areas. While there may sometimes be room for argument about the appearance of the new buildings which replace them —for on these matters people can hold widely different views—the machinery of the Planning Acts provides for consideration to be given to the design and external appearance of the proposed new buildings at the plan stage, and to the provision of adequate car parking facilities. In appropriate cases there is consultation with the Royal Fine Art Commission.'

LORD BOSSOM asked if the Minister felt it would be much more desirable that the Government should make a recommendation to the Crown Commissioners to set an example to other people and thereby preserve 'the good things we have had in the past.'

LORD DUNDEE said that buildings in which the Crown (including Government Departments) had an interest were not listed, but if a building had such merit that it would be listed but for the Crown interest, the Government Department concerned was informed and its co-operation requested in securing preservation of architectural or historic features of the building. If works were proposed that would normally be notifiable under Section 30, the Minister of Housing and Local Government would expect to be consulted. The Town and Country Planning Act, 1947, contained no provision for contributions from public funds towards the cost of preservation but steps were taken to consult the RFAC about the matter and about any new buildings which might replace the old ones.

LORD CONESFORD said the importance of Carlton Gardens was recognised in the current report of the RFAC. In view of what they said, could the Minister assure them that the approval of the RFAC would be sought for any development proposed in Carlton Gardens? Was it really Government policy to replace residential by office building in this area in order to increase the number of those who had to travel to London daily?

LORD DUNDEE said the RFAC would be consulted about the architecture and scale of this new building.

LORD BOSSOM commented that many ambassadors of art, if they could rent this property, would thereby keep it in good condition and make it equally paying to the Government.

LORD DUNDEE said he would represent that to the Minister.

## Technical Assistance for Overseas Countries

THE BILL to create the new Government department to be known as the Department of Technical Co-operation was given an unopposed second reading in the Commons on April 27. The new department will deal with the provision of aid to overseas countries in the form of technical assistance although SIR EDWARD BOYLE, Financial Secretary to the Treasury, explained that it would not be responsible for providing capital. The present procedures for capital aid were adequate and they would remain as at present with the overseas departments—the Foreign Office, Commonwealth Relations Office and Colonial Office.

The Government considered, he explained, that the work of recruiting specialists for overseas work could be done more easily and efficiently if centralised in one department and this was an example of the work to be done by the Department of Technical Co-operation. The supply of qualified people available for overseas was limited and it was of the highest importance that they should have the best possible arrangements for selecting them and using their abilities in the best direction.

Sir Edward stated that last year 36 different categories of experts were recruited for service in the United Kingdom's dependent territories, and among the few he mentioned were architects. There was no need to emphasise the importance of the work done by experts, he said. It often lay the foundation on which a sound project of capital investment was based.

MR. ALBERT COSTAIN, who observed that for 30 years he had been one of a team engaged in developing underdeveloped countries, said the new Ministry needed backing up with practical experience. In his own company, when they were working in a new part of the world and introducing a new company, they found that the success of the team depended upon its getting together and deciding that there was a difficult task to be done and that every department would have to make sacrifices, sacrifices that were gladly taken because all departments knew that their turn would come and that upon their sacrifices depended the experience and reputation of the team which went. He hoped the same attitude would be taken by the Government Departments which had to make staff sacrifices.

There had been some discussion about degrees in technical subjects and reference had been made to the fact that some students failed examinations in certain subjects and were then not fully qualified. If they were to train engineers and technicians, let them train them to degree standard but not only academic but practical degree standard.

'The Institute of Builders has appreciated that of recent years,' he said, 'and now has a system which allows for different levels of engineers, or craftsmen and of technicians. It is important that there should be those grades and that we should not hold up anyone merely because he is not fully qualified. Let us send out those people who are able to do the task. The definition of "civil engineer" is a man who harnesses the powers of nature for the benefit of mankind. I hope that that will be the motto of this new Ministry.'

## The Saffron Walden Decision

THE LORD CHANCELLOR'S justification of the actions of Mr. Henry Brooke, Minister of Housing and Local Government, in the Saffron Walden planning appeal (given in full on page 865) has stimulated the interest of both Houses in the conduct and procedure of planning inquiries and appeal decisions.

There were questions to the Prime Minister on April 27. Some questions to Mr. Brooke were postponed as he was not answering questions orally last week. (To allow time for the Lord Chancellor to have discussions with the Council on Tribunals about the case, Lord Silkin has agreed to a postponement until May 8 of the debate on the case which he had proposed to initiate in the House of Lords on May 4).

MR. JAMES MACCOLL, one of the Opposition's housing and local government spokesmen, asked the Prime Minister whether he would take steps to ensure that Ministers implemented the recommendation of the Committee on Administrative Tribunals and Inquiries to the effect that they should submit to the parties at an inquiry for their observations any factual evidence, including expert evidence, obtained after the inquiry and influencing their final decision.

MR. MACMILLAN: 'The Government agree that the parties to an inquiry should be given an opportunity of commenting on any new factual evidence obtained after the inquiry, and this was made clear in the circular issued by the Ministry of Housing and Local Government in February, 1958. But the Government have always taken the view that the term 'factual evidence' does not cover technical or other advice given to a Minister by officials on the issues raised at the inquiry and on the weight to be attached to the evidence which was given there.'

*** The decision was the subject of a leading article in 'The Builder' of April 21.—ED.

# National Federation

## Representatives on Government Bodies and Joint Boards

THE COUNCIL of the National Federation of Building Trades Employers has selected the following members to serve during 1961 as representatives of the Federation on the various Government bodies and joint boards and committees concerned with building matters.

*Ministry of Works' National Consultative Council of the Building and Civil Engineering Industries.*—F. Russon (Birmingham), L. A. Walden (Henley-on-Thames) and P. E. Trench (London).

*Ministry of Labour and National Service's Joint Advisory Committee on Safety and Health in the Building and Civil Engineering Industries.*—L. A. Walden and P. E. Trench.

*National Joint Consultative Committee of Architects, Quantity Surveyors and Builders*—G. W. Grosvenor (Bath), H. G. Frost (Bury St. Edmunds), N. Hannen (London), T. V. Prosser (Liverpool), F. Russon, L. A. Walden and D. E. Woodbine Parish (London).

*Architects' Registration Council.*—D. E. Woodbine Parish.

*Board of Building Education.*—H. G. Frost, R. O. Gerrard (Manchester), W. K. Laing (London), D. E. Woodbine Parish, T. V. Prosser, A. C. V. Telling (Bristol) and T. H. Huxley Turner (Cardiff).

*British Employers' Confederation.*—Council—G. W. Grosvenor, N. Hannen, L. J. Holloway (London), N. Longley (Crawley), D. E. Woodbine Parish, T. V. Prosser, F. Russon, P. E. Trench, L. A. Walden. General Meeting—D. M. Chaston (Hoddesdon), L. J. Holloway, W. S. Jones (Maidenhead), D. E. Woodbine Parish, J. Ian Robertson (Burton-on-Trent), F. Russon and L. A. Walden. Safety, health and welfare committee—L. A. Walden. Social insurance and employers' liability committee—E. R. Bowyer (Slough). Industrial education and training committee—H. G. Frost. Industrial relations committee—N. Hannen. Employment and manpower committee—G. W. Grosvenor. Taxation committee—M. J. Pelham (London). Road transport committee—N. Hannen. Special committee on wages and conditions—F. O. Jayne.

*Federation of British Industries.*—A. R. Mais (London) and C. G. Rowlands.

*British Road Federation.*—N. Hannen.

*British Standards Institution.*—Building Divisional Council.—H. E. Comben (London) and W. K. Laing.

*Building Advisory Service Committee of Management.*—G. W. Grosvenor, N. S. Farrow (London), R. O. Gerrard, W. S. Jones, N. Longley, J. Ian Robertson and P. M. Shepherd (York).

*Building and Civil Engineering Holidays Scheme Management Ltd.*—Board of Directors—N. Longley, F. Leslie Wallis (Maidstone), P. E. Trench. Members of the company—D. M. Chaston, W. S. Jones, H. Leighton (London), Sir Robert Lloyd (Bromborough), N. Longley, J. Ian Robertson, C. G. Stirk (Leeds), A. Tomlinson (Leyland), P. E. Trench and F. Leslie Wallis.

*Building Industries National Council.*—G. W. Buchanan (London), W. H. Forsdike (Sheffield), W. Horsfall (Liversedge), J. Ian Robertson and P. E. Trench.

*City and Guilds of London Institute.*—Representative member—F. Russon. Consultative committee—H. G. Frost and D. E. Woodbine Parish.

*Joint Contracts Tribunal.*—E. R. Bowyer, K. C. F. Foster (London), N. Longley and T. V. Prosser.

*Liaison Committee with the Building Research Station.*—C. D. Calverley (Leicester), H. E. Comben, N. S. Farrow (London), W. K. Laing and Sir Robert Lloyd.

*Liaison Committee with the Federation of Civil Engineering Contractors.*—F. Russon, D. M. Chaston, L. J. Holloway, W. S. Jones, D. E. Woodbine Parish, J. Ian Robertson and L. A. Walden.

*National Joint Council.*—L. A. Walden, H. G. Frost, N. Hannen, F. Leslie Wallis, P. E. Trench, A. W. Birch (York), G. W. Grosvenor, L. J. Holloway, C. P. Howells (Caerphilly), W. S. Jones, Sir Robert Lloyd, K. Taylor (Rochdale), W. S. Thompson (Northallerton), C. E. Wadley, M. van Westerborg (Uxbridge) and F. Wootton (Walsall).

*National Joint Apprenticeship Board.*—H. G. Frost, F. Allard (London), J. E. Austin (London), G. A. Hill (London), Sir Robert Lloyd, P. H. P. Lovell (Gerrards Cross), D. E. Woodbine Parish, K. J. Pearce (London), Ald. H. Pickles (Halifax), H. Snow (Liverpool), A. C. V. Telling and F. Wootton.

*Standing Joint Committee for the Standard Method of Measurement of Building Works.*—L. A. Walden, G. E. Beard (Swindon), R. E. I. Carlyle (Manchester), S. T. Firth (Doncaster), K. C. F. Foster, E. T. Sermon (Nottingham) and C. E. Westerman (London).

*National Advisory Committee for the Training of General Foremen.*—D. E. Woodbine Parish, W. T. Booth (Bradford), N. Hannen, G. I. Orchard (Stroud), Ald. I. W. Owen (Stockport), C. E. Wadley (Colchester), R. W. Whittington (Southampton) and F. Wootton.

*Employers' and General Foremen's National Joint Advisory Committee.*—N. Hannen, W. T. Booth, T. S. B. Coats (Swansea), R. G. Finlay (Sunderland), G. I. Orchard, H. S. Oddie (Preston), J. B. Tomkinson (Liverpool), D. E. Woodbine Parish, M. J. Youngs (Norwich), R. W. Whittington and F. Wootton.

*Timber Industries Confederation.*—G. W. Grosvenor.

*Timber Development Association Council.*—G. W. Grosvenor.

*Liaison Committee with B.I.D. and B.M.P.*—F. Russon, D. M. Chaston, L. J. Holloway, W. S. Jones and D. E. Woodbine Parish.

*Royal Society for the Prevention of Accidents.*—L. A. Walden.

## NFBTE Awards

### *Building Craft Apprentices and Trainees*

AWARDS ARE AGAIN being offered by the National Federation of Building Trades Employers on a national and regional basis to the most outstanding building craft apprentices and building trainees in England and Wales. The total value of these awards is over £1,000.

Candidates must have been either indentured or articled to a firm in membership with the National Federation and have completed their period of training between October 1, 1960, and September 30, 1961. Minimum standards of entry are the City and Guilds of London final craft certificate for apprentices and the national certificate or diploma or the equivalent for trainees. Entries, which may be submitted by employers or technical colleges, should be made on special forms obtainable from the appropriate Regional Federation of the NFBTE, to which they should be returned.

# Institute of Builders

## 77th Annual General Meeting

AT THE seventy-seventh annual general meeting of the Institute of Builders, held in the Royal Festival Hall, SE1, on April 29, Mr. J. Gowing Middleton, FIOB, was elected President.

The seventy-seventh annual report was adopted. During consideration of the annual report, the meeting was informed that the following applications for admission to the 1961 examinations had been received. New Professional Membership Examinations—June 26 to 28 (to be offered for the first time this year): Intermediate, 4; Final Part I, 4; Final Part II, 169; * Licentiate Diploma Examination, 676 (September 4-6, 1961).

The current total of those in membership and of those registered under the Registration and Exemption Scheme is 6,060.

*Practice Admission to Registered Foreman Class.*—The meeting agreed to emphasise that the closing date for the receipt of applications from experienced general foremen over 45 years of age, who wish to join the Institute in the class of 'Registered Foreman' upon practice qualifications is May 20, 1961.

* The closing date for receipt of applications is May 31, 1961.

### The Council, 1961-62

OFFICER MEMBERS

*President:* *J. Gowing Middleton (Great Yarmouth). *Vice Presidents:* *Harvey G. Frost, OBE (Bury St. Edmunds); *D. C. C. Roberts, MA (London); *P. M. Shepherd (York); *Gerald A. Hill, OBE (London).

*Honorary Treasurer:* *H. S. Oddie (Preston) (Past President).

ORDINARY MEMBERS

*Past Presidents.*—Basil C. Aldous, JP (London), William H. Lee (London), Harold H. Ridge (Brighton), F. Leslie Wallis, OBE, JP (Maidstone), G. O. Swayne, OBE (Guildford).

*Fellows.*—G. W. E. Airey, TD, MA (Leeds), C. E. Bollom (London), J. C. Corben (Maidstone), A. P. Costain, MP (London), C. W. Cubitt, TD (Ipswich), C. I. V. Curtis (Rochester), *G. I. Dance (London), Paul L. Dean (London), *H. J. Falkus (London), *N. S. Farrow, OBE (London), P. Fotheringham-Parker (London), O. T. Hedges (Rickmansworth), *B. T. Henman, JP (Luton), Laurence J. Holloway (London), *P. B. Jenkins (Southampton), A. G. Miles (Ilford), *R. G. Norman (London), W. Tompkins (Hayes), *H. Vincent (London), *D. A. Wright, JP (Great Missenden), *P. F. H. Wykeham, MC (Rugby).

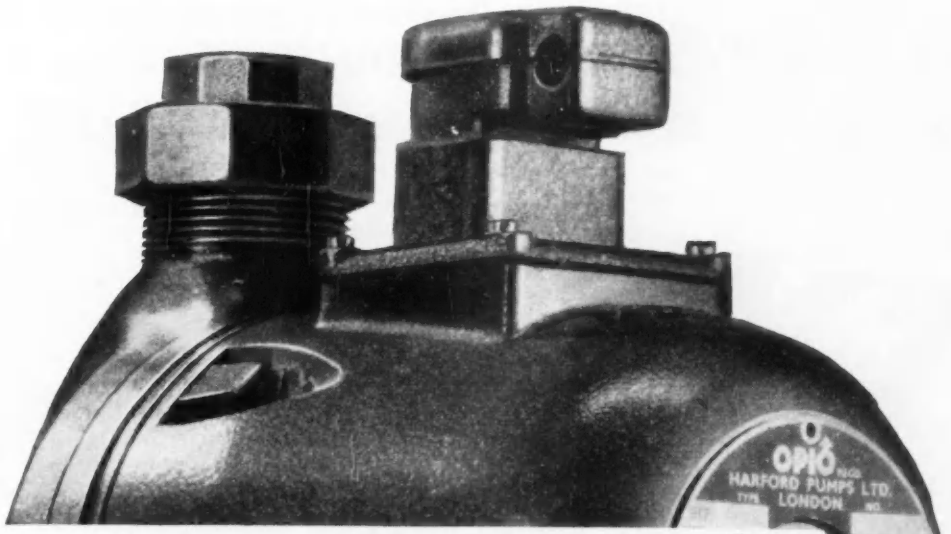
*Associates.*—J. L. Gardner (Irby), B. E. Lucas (Edgware), *T. B. Nichols (Guildford), J. H. M. Overton (London), *A. P. Perrin (Chadwell Heath), A. C. V. Telling (Bristol).

*Licentiates.*—*M. E. Dicks (London), J. Kinton (Petersham), C. C. Westerman (Hove).

*Branch Member.*—Midlands branch: Ralph Peacock (A).

*Co-opted Member.*—Hon. Secretary of the Discussion Club.

* Members elected at 1961 Annual General Meeting.

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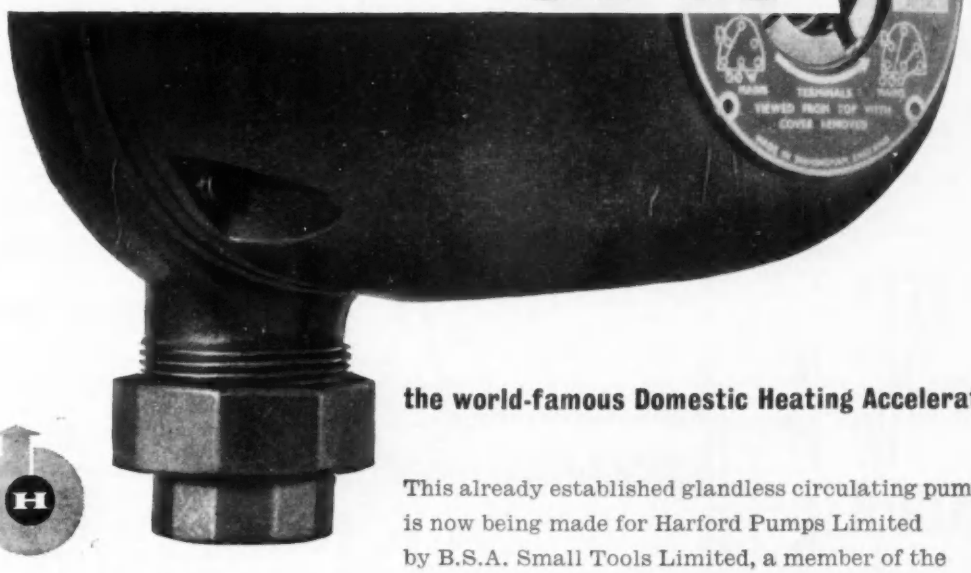


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# Pre-Apprenticeship Courses

## Successful Training Scheme at Wigan

PRE-APPRENTICESHIP IN THE BUILDING INDUSTRY was the subject of a symposium held at the College of Further Education, Rawtenstall, Lancashire, on March 18 under the auspices of the North Western Educational Association for the Building Industry. MR. W. FITTON, BSC, MISTRUCTE, head of the department of building and civil engineering, Royal Technical College, Salford, and president of the NWEABI, opened the proceedings. The panel, under the leadership of Dr. L. Kuttner, ARIBA, head of the department of architecture, civil engineering and building at Wigan and District Mining and Technical College, consisted of Mr. R. G. Sephton, lecturer in charge of pre-apprenticeship courses at Wigan, Miss E. Sharples, youth employment officer, Mr. A S. Knowles, employers' secretary, Wigan and District Building Trades Employers' Association, Mr. S. J. Price, BA, a headmaster, and Mr. F. Hammond, FIOB.

DR. KUTTNER started the discussion with a brief history of his experience of pre-apprenticeship courses at Loughborough and Wigan. He stressed the difficulties which he had experienced since 1950 in getting the idea accepted but now that the local construction industry had seen the results, he was getting full support. The basic needs for establishing the courses on a firm footing, he continued, were: (i) good selection; (ii) suitable syllabus and teaching methods; and (iii) suitable placement at end of course. These needs required respectively: (i) the co-operation between secondary school headmasters and youth employment officers; (ii) the right teaching staff, equipment and accommodation; and (iii) co-operation between employers and again the youth employment officers.

MR. SEPHTON pointed out that selection was the most important factor in enrolling the right students for the course; at Wigan the secondary school headmasters played a very important part by their recommendations. Parents of potential students were interviewed, and in cases of doubt the first term was always looked upon as a trial period. The course was also regarded as an excellent lead up to the first year ON Certificate or 2nd year City and Guilds.

As a headmaster, MR. PRICE refuted the accusation popularly levelled against secondary schools of 'hanging on' to their pupils as long as possible—the aim always was to do the very best for the boy or girl; some profited by staying on, others undoubtedly benefited by transfering to a technical college for courses with a practical bias, particularly if the academic side was kept up to a large degree as at Wigan. He considered that the course usefully filled a gap from 15 plus to 16 plus and encouraged pupils to stay to the end of the school year knowing in advance of their acceptance by the technical college.

MR. KNOWLES said that the employers at Wigan had been delighted with the products of the course and had reached the stage where the local joint apprenticeship committee had now guaranteed to take 65-70 per cent of the successful course leavers.

A less happy note was struck by MR. HAMMOND who regretted that in his area difficulties had been experienced due, in his opinion, to lack of interest from boys and parents together with lack of encouragement and co-operation from local headmasters. Given reasonable co-operation as exemplified at Wigan nothing but good could come out of the establishment of pre-apprenticeship courses, but in any area it was the recommendations and co-operation of headmasters which were essential to the successful working of the scheme. The National Joint Council had circulated all concerned with the idea that such schemes should be introduced wherever possible and they would be fully supported at national level. At the moment discussion was taking place to try to obtain approved pre-apprenticeship courses as part of the period of indenture, and he hoped that this would be an incentive in all areas to establish suitable courses.

# Builders' Benevolent Institution

*Expansion to Areas Outside London Proposed*

THE EXPANSION of the activities of the Builders' Benevolent Institution to areas outside London was urged by LORD BOSSOM, LLB, FRIBA, at the 101st annual dinner of the Institution in London on April 25. Proposing the toast of the Institution and its president, Lord Bossom said that its work was a source of great satisfaction to many in the industry. In spite of the good times the industry was now experiencing, there were still people that the Institution could help. Intense competition was a cause that did not help matters much. 'It would be a good thing,' he said, 'for you, and the industry generally, if you were to broaden your service to cover areas outside London.'

Touching lightly upon architecture, Lord Bossom hoped that careful attention would be paid in the future to the design of multi-storey dwellings in London. The population of London, as everyone knew, was climbing to new heights. It was dangerous practice to crowd people, especially children, into such dwellings.

Lord Bossom's sentiments on expansion were echoed by SIR ROBERT LLOYD, CBE, FIOB, the president, who took the opportunity to ask members to contribute more generously to the cause. The Institution needed £5,000, and he made a further appeal for money to reach this figure. The £1,600 collected so far was 'nothing like good enough,' he added.

Other speakers were MR. R. F. MANSELL, LMBA president, and MR. F. RUSSON, president, NFBTE. Over 300 members and guests were present.

### Timber Engineering Conference

THE FIRST INTERNATIONAL CONFERENCE on timber engineering is to be held at the University of Southampton from September 18 to 23. It is being organised jointly by the University and the Timber Development Association. Papers will be presented under the four main headings of description, construction, design and research. The conference secretary is Dr. H. G. Allen, and requests for further information should be addressed to him at the Department of Civil Engineering, University of Southampton.

# Earnings of Manual Workers

*Results of a Survey of Distribution*

REVEALING INFORMATION about the spread of earnings by manual workers is contained in the 'Ministry of Labour Gazette' for April (HMSO, price 2s. 6d.). The results are published of a survey undertaken by the Ministry covering nearly 4½m. adult men and slightly more than 1m. adult women in more than 60,000 establishments. The survey covered those who did a full week's work in the pay-week which included October 12, 1960. The designation 'manual worker' included unskilled workers and general labourers as well as highly-skilled operatives. Information of this kind has not been collected since 1938.

The results have been classified according to the actual earnings in the week specified, including payments for overtime, night-work, etc., and amounts earned by piecework and other methods of payment-by-results. Proportions of bonuses paid otherwise than weekly have been included on a weekly basis. The main results show that more than half the men (54.4 per cent) earned between £9 and £15 for that week. For women, about 60 per cent earned between £6 and £9.

There were relatively few men who earned less than £9 (3½ per cent). At the other end of the scale 30 per cent of the men earned from £15 to £20 and 12 per cent for that week earned £20 or more. Of the women, 37 per cent earned less than £7 and 13 per cent earned £10 or more. These figures relate to all industries covered by the inquiry, namely manufacturing industries generally; mining and quarrying (excluding coal mining); construction; gas, electricity and water; transport and communication (excluding railways, London Transport, and British Road Services); laundries; dry cleaning; motor repairers and garages; boot and shoe repairers; and national and local government service.

It is interesting to note that men on the £2,500 a year rate for the week in question included 261 in various sections of shipbuilding and engineering, 166 in printing, 83 in building and civil engineering, and 69 in iron and steel. Separate figures show that 8 miners and 17 dockers earned more than £50.

# The Construction Equipment Exhibition

## Preparations Well Advanced at Crystal Palace Site

FROM OUR SPECIAL CORRESPONDENT

*The International Construction Equipment Exhibition will be held on the old Crystal Palace site from June 15-24 after an official opening by the Rt. Hon. Reginald Maudling, President of the Board of Trade. It will provide the most comprehensive display ever assembled in this country of construction equipment for the building and civil engineering industries. More than 170 different companies will be represented including 50 from overseas.*

THE SITE, which has been made available by the London County Council, offers some 25 acres of exhibition area including that formerly occupied by the 1851 Exhibition Palace and also the terraced gardens designed by Sir Joseph Paxton a century ago. Over 50 exhibitors will be making use of the two proving grounds on the lower terrace, covering some 200,000 sq. ft. of ground specially reserved for demonstrating machinery and equipment, such as the earth moving and road-making machinery, in typical working conditions. A 300-ft. long Bailey bridge will straddle each proving ground and allow visitors a first-class vantage point from which to see the demonstration. They will also overlook Crystal Palace Park and the motor racing circuit.

### Heavy Exhibits

The heaviest exhibits, such as concrete silos, batching plants and tower cranes, will be seen on the upper terrace, the area formerly occupied by the Crystal Palace. The intermediate terraces will be occupied by the lighter equipment such as air compressors, drills, jacks, ladders, protective clothing, saws and winches. The area available for the actual display of static exhibits, even after allowance has been made for administrative offices, catering and gangways, will, in fact, be well over a quarter of a million sq. ft.

Where the old high level station used to be, an 8-acre car park is being built to accommodate 1,500 cars. This will be linked to the main exhibition area by a subway. The actual entrance to the exhibition will be marked by a stylised archway of tubular scaffolding, whilst a second archway and three 85 ft. towers will be among other conspicuous features.

### Preparatory Work

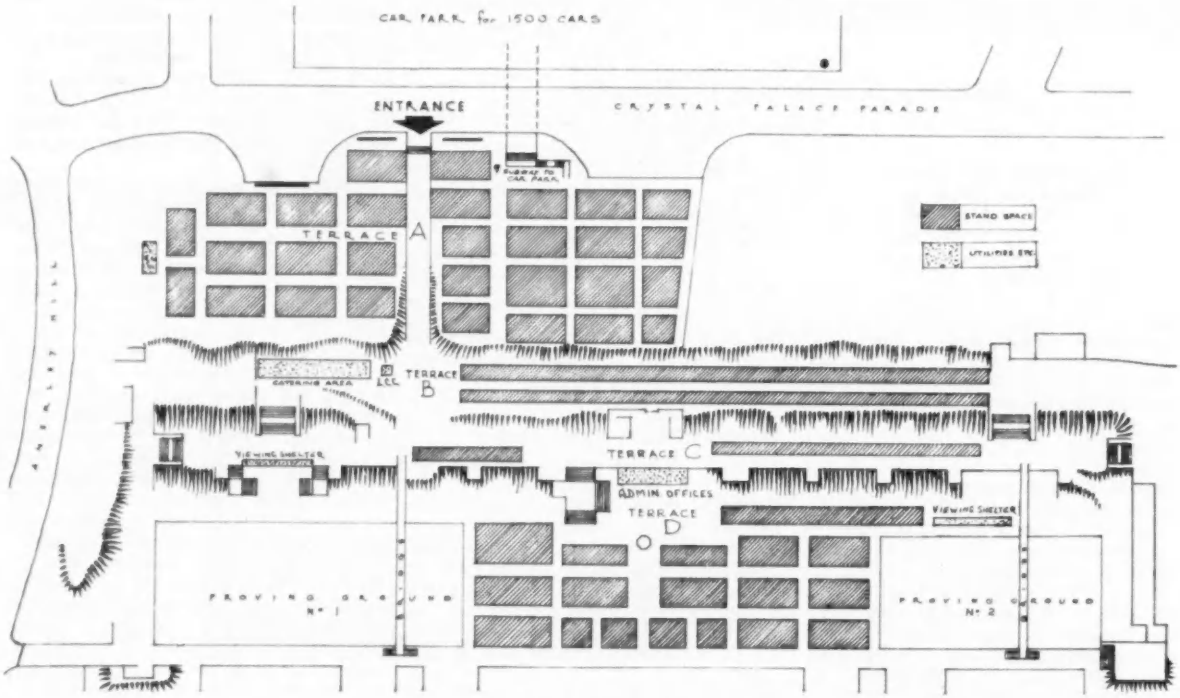
Much work has already been done in preparing the exhibition area, including the removal of 5,000 tons of earth, and there is little doubt that, when finished, the site will provide a first-class open-air exhibition. This is what the construction equipment industry has been looking for for some time as it gives them the opportunity to rival some of their biggest competitors in Europe. The Germans, of course, have had a large international exhibition of construction equipment as part of the annual Hanover Fair for many years. The open air section of the Hanover Fair occupied some 85,000 sq. ft. when it started in 1947 and this has since risen to 1.7m. sq. ft. The French launched their open-air exhibition at Le Bourget in 1958 and this was repeated in 1960.

### Rapid Expansion

In this country the manufacture of construction equipment has had an outstanding growth. Over the past ten years it has increased nearly fourfold and the annual value of its output today is something like £100m., which makes us the largest manufacturer of such equipment in Europe. Furthermore, half of these sales go overseas so that, purely from an economic point of view, it is important that the June exhibition should be a success.

Similar open-air exhibitions have been held for several years in this country, but on a much smaller and less ambitious scale. They were organised by the Ministry of Works who, after the Greenford exhibition in 1959, announced that they wished to withdraw and looked to the industry to develop the idea. The Crystal Palace exhibition is being sponsored by the Federation of Manufacturers of Construction Equipment, the National Federation of Building Trade Employers and the Federation of Civil Engineering Contractors. Between them these federations represent both the manufacturers of the constructional equipment that will be exhibited and the actual buyers and users of the exhibits, an unusual combination which could be a promising formula for future enterprises.

This is the first major exhibition to be held at the Crystal Palace for 25 years and, it is hoped, will be the forerunner of many more which will help re-establish the site as a centre of importance.




*Site plan of the exhibition*

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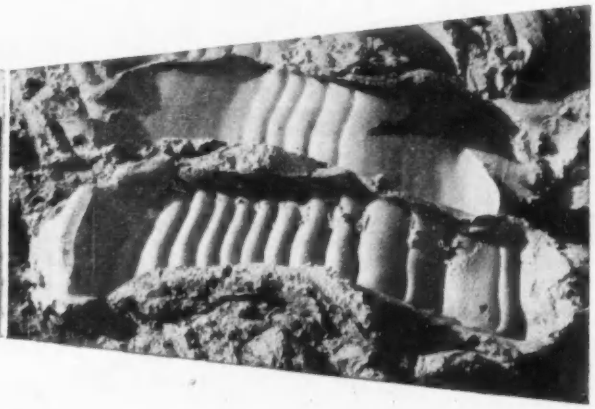

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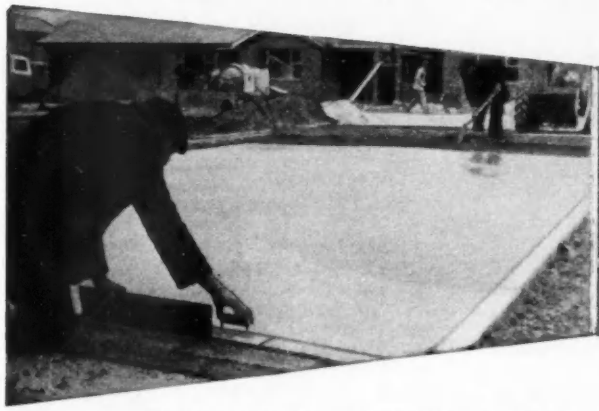

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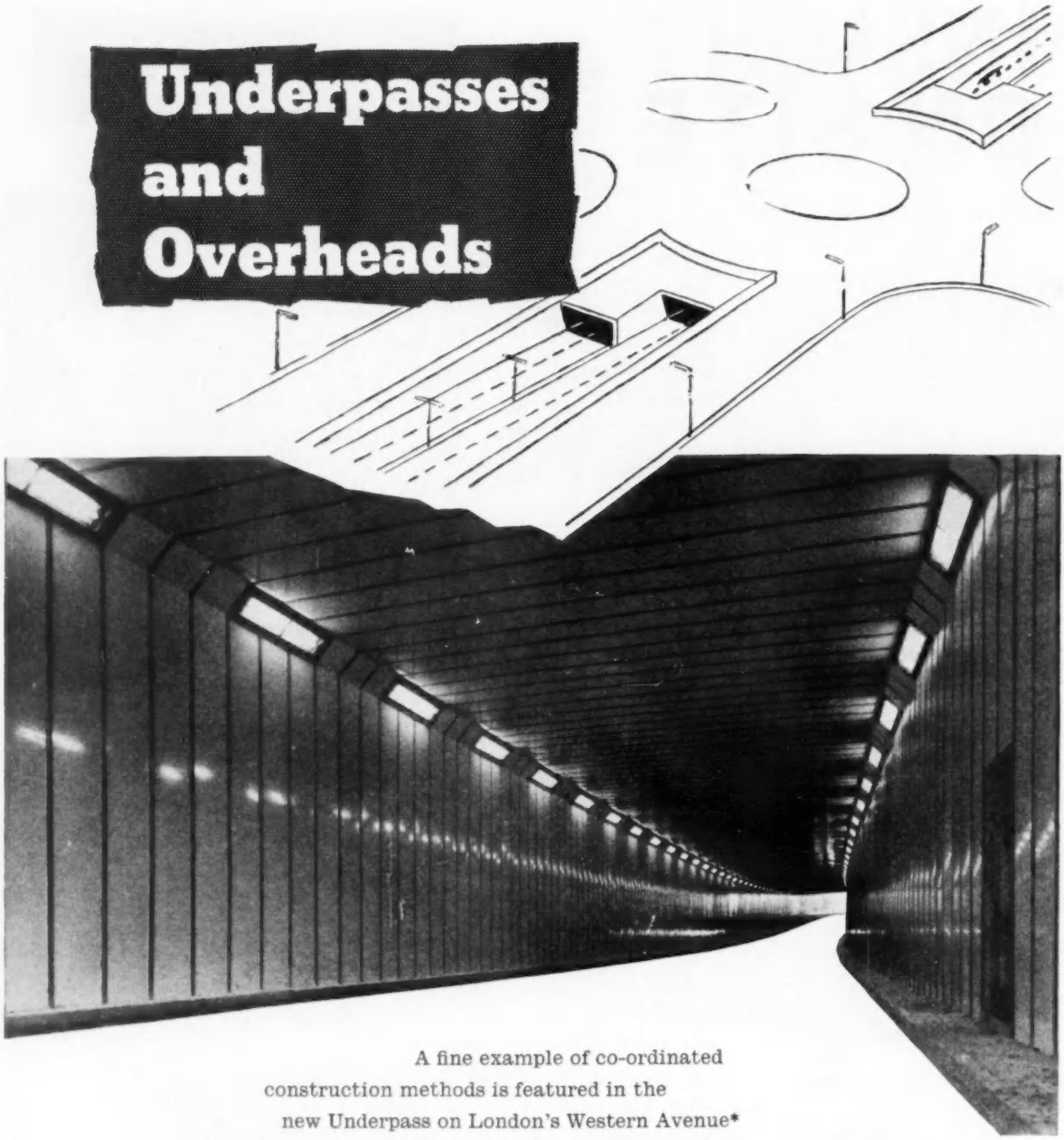

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# Growth of London and South-East England

## T and CPA Statement to MoHLG

AT A CONFERENCE of nearly 600 representatives of local authorities, held in London last month, the Town & Country Planning Association described its draft proposals for dealing with the problem of the 'staggering growth' of the London Region. Following discussion the proposals were revised and a policy statement on the development of London and south-east England in the next twenty years has now been submitted to the Minister of Housing and Local Government. We take the following extracts:

Abercrombie's Greater London Plan of 1944 covered an area of 2,600 square miles, stretching 25 to 35 miles from Charing Cross. Within the Plan area, which embraced places as far out as Bishop's Stortford, Royston, Luton, High Wycombe, Haslemere, Sevenoaks and Gravesend, there lived in 1938 about 10¼ million people. The Plan was based on certain assumptions, among them the following: that London would grow outward no more; that no new industry would be admitted to London and the Home Counties, save in special cases; that the 10¼ million population level of the Plan area would, if anything, be reduced; and that about 1¼ million people, with related industry, would move out of the central urban mass: 125,000 to LCC estates; 261,000 to town expansions in the outer country ring; 383,000 to the eight new towns; 163,000 to town expansions just beyond the Plan area; and 100,000 wholly outside the Metropolitan influence.

In fact, only parts of the comprehensive policy proposed by the Barlow Report and the Abercrombie Plan have been applied. Within London's daily sphere of influence population and employment have continued to grow rapidly. And as new industries, new offices and more people have been drawn towards the metropolis, so has the range of the true London Region extended 10 to 20 miles in almost every direction beyond the limits of Abercrombie's area.

Planned dispersal schemes, voluntary outward movement of people continuing to work in London, and sustained employment growth have together produced a belt around the metropolis in which population is growing at five times the national rate, and employment at about four times. It is this extended Abercrombie Plan area, stretching 90 miles from Southend and the Medway towns in the east to beyond Reading in the west, and a similar distance from Bletchley and Royston in the north to Maidstone and Burgess Hill in the south, which now constitutes the London Region. And its great vitality and magnetism daily strengthen the pressures to extend still further its limits.

### The Policy Proposed

*London and the rest of Britain.* We recognise that south-east England has far too many economic and other attractions for any rigid embargo on its growth to be either wise or practicable. However, we believe that it should be an urgent objective of Government policy to bring about a better balance between main regions in this country. This is desirable in the interests both of other industrialised regions, such as Clydeside, Tees-Tyne Area and South Wales, and of the London Region itself. Further rapid growth in the London Region will intensify such existing problems as traffic congestion, long journey to work, and high land and house prices. It will lead to rapid erosion of the countryside within 30 miles of the capital. At the same time, some other regions urgently need further economic development and improved social and cultural facilities if they are to realise their potentialities.

### Broader Approach Needed

The Association welcomes the Government's renewed attempts to steer industry to areas of unemployment. It believes, however, that this policy is much too narrowly conceived. The new industry is liable to be guided into already congested areas such as Merseyside and Clydeside, or to old towns which at present have poor communications and blighted living conditions. We believe that the correct policy is to consider and to plan new development for these areas from a broader regional standpoint. Piecemeal measures will not suffice. It is necessary to select and develop the best sites for economic growth and for the creation of improved living conditions.

It is also necessary at the same time to redevelop the blighted centres of large provincial and Scottish cities, and to assist the transfer of population from overcrowded towns and from towns with poor employment prospects to places in the same region where a more satisfactory life can be realised. In due course, the Association will be making policy proposals about the planning and development of the other principal regions of Britain.

To realise these aims, the Government and private employers will need to become less London-dominated in their thinking and assumptions. London exercises an enormous pull as the centre of Government, the focal point of national communications, and a centre of unrivalled cultural and social facilities. Nothing can remove these general advantages, but we are convinced that in modern Britain it is wrong to encourage a still greater degree of centralisation in the national economy. Various steps can be taken to correct the balance. For example, the development of highways, airports, and railway modernisation can be deliberately directed towards improving the prospects of other major regions, instead of enhancing still further the importance of London, as is now occurring. Housing assistance and the development of new and expanded towns can be directed to the same end. The Govern-

TOWNS SUGGESTED AS MERITING CONSIDERATION FOR EXPANSION UNDER THE TOWN DEVELOPMENT ACT OR NEW TOWNS ACT

| | Road miles central London | 1960 population | Agreed population under present expansion schemes | Proposed 1980 population |
|---|---|---|---|---|
| Aylesbury (Bucks) | 40 | 24,000 | 35,000 | 65,000 |
| Witham (Essex) | 40 | 9,000 | — | 40,000 |
| Braintree (Essex) | 43 | 20,000 | — | 40,000 |
| Saffron Walden (Essex) or | 45 | 7,500 | — | 60,000 |
| Halstead (Essex) | 50 | 6,600 | — | 60,000 |
| Isle of Sheppey (Kent) | 45 | 20,000 | — | 60,000 |
| Bletchley (Bucks) | 47 | 16,000 | 20,000 | 50,000 |
| Didcot (Berks) | 52 | 9,000 | — | 50,000 |
| Ashford (Kent) | 54 | 27,000 | 41,000 | 80,000 |
| Colchester (Essex) | 54 | 66,000 | — | 100,000 |
| Haverhill (W. Suffolk) | 56 | 5,000 | 15,000 | 20,000 |
| Bicester (Oxfordshire) | 57 | 6,000 | — | 16,000 |
| Sudbury (W. Suffolk) | 58 | 6,000 | — | 16,000 |
| Newmarket (W. Suffolk) | 62 | 11,000 | — | 21,000 |
| Huntingdon (Hunts) | 62 | 9,000 | 12,500 | 20,000 |
| Aylesham (Kent) | 64 | 3,000 | — | 43,000 |
| Andover (Hampshire) | 66 | 16,000 | — | 50,000 |
| Wellingborough (Northants) | 68 | 30,000 | — | 50,000 |
| Bury St. Edmunds (Suffolk) | 75 | 22,000 | 27,000 | 60,000 |
| Kettering (Northants) | 75 | 38,000 | — | 70,000 |
| Thetford (Norfolk) | 82 | 5,200 | 10,000 | 25,000 |
| King's Lynn (Norfolk) | 98 | 27,000 | — | 60,000 |

TOWNS SUGGESTED FOR CONSIDERATION FOR DEVELOPMENT AS REGIONAL CENTRES

| | | | | |
|---|---|---|---|---|
| Basingstoke (Hampshire) | 47 | 24,000 | 36,000 | 100,000 |
| Ipswich (E. Suffolk) | 72 | 115,000 | — | 180,000 |
| Swindon (Wiltshire) | 79 | 85,000 | 100,000 | 170,000 |
| Peterborough | 82 | 57,000 | — | 120,000 |
| Northampton | 65 | 101,000 | — | 200,000 |

TOWNS IN EAST ANGLIA WHICH MIGHT BE EXPANDED AS PARTS OF A REGIONAL DEVELOPMENT PROGRAMME

| East Suffolk | West Suffolk | Norfolk |
|---|---|---|
| Stowmarket | Haverhill | Thetford |
| Eye | Bury St. Edmunds | Diss |
| Woodbridge | Hadleigh | Swaffham |
| | Sudbury | |

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ment can give a lead in transferring a greater proportion of its own operations to provincial centres.

### Three Principal Measures of Control

After carefully considering all these complex factors, the Association has concluded that three principal measures should be adopted for guiding and controlling the growth of the London Region.

(a) *The outer rings.*—First, county councils in the immediate vicinity of London will have to plan for a further substantial increase in their population. We estimate that the minimum 20-year increase for the area within regular commuting range of London (e.g. within a radius of roughly 20 to 40 miles) must be put at 300,000 houses or one million people. The figure will certainly be much higher than this, unless the other measures which we recommend are also taken.

We strongly recommend that this further growth should not be allowed to spread across the remaining countryside. Most of it should be concentrated around existing towns, but at densities which can provide good housing at satisfactory standards. In other words, we believe that within this ring there should be compact development, but certainly not high density development. Wherever necessary to these aims, the county councils should buy and lease land for development. Unless this is done, it seems all too likely that land values will continue to spiral to a point where effective control of development becomes socially and politically impossible.

Most of the new development within this ring will be carried out by private enterprise. Some provision, however, must also be made for public schemes of overspill housing which should be planned in conjunction with industrial dispersal. We append a list of places which appear to be suitable for development of this kind. All of these places are beyond the present new towns, but almost all within about 70 miles of central London.

### Regional Centres

(b) *New regional centres.*—The second measure we recommend is that certain towns much farther from London should be developed as attractive centres providing a wide range of facilities to serve places fifteen to twenty-five (or even more) miles away. The main factor governing the provision of these facilities (for example, large shops, technical and teacher training colleges, hospitals and medical centres, cultural and entertainment buildings) is the presence within easy travelling distance of a population large enough to sustain them. This may be achieved either by substantial enlargement of the regional centre, or by more modest expansion of the centre and the simultaneous development of other towns in its vicinity.

For example, the development of Northampton as such a centre could be related to the expansion of Kettering, Wellingborough, and perhaps two or three other nearby towns. A similar policy could be applied to Peterborough and its neighbouring towns, and Ipswich could be developed as a regional centre serving some of the East Anglian towns named in the accompanying table. Other towns suitable for development as regional centres are Swindon and Basingstoke.

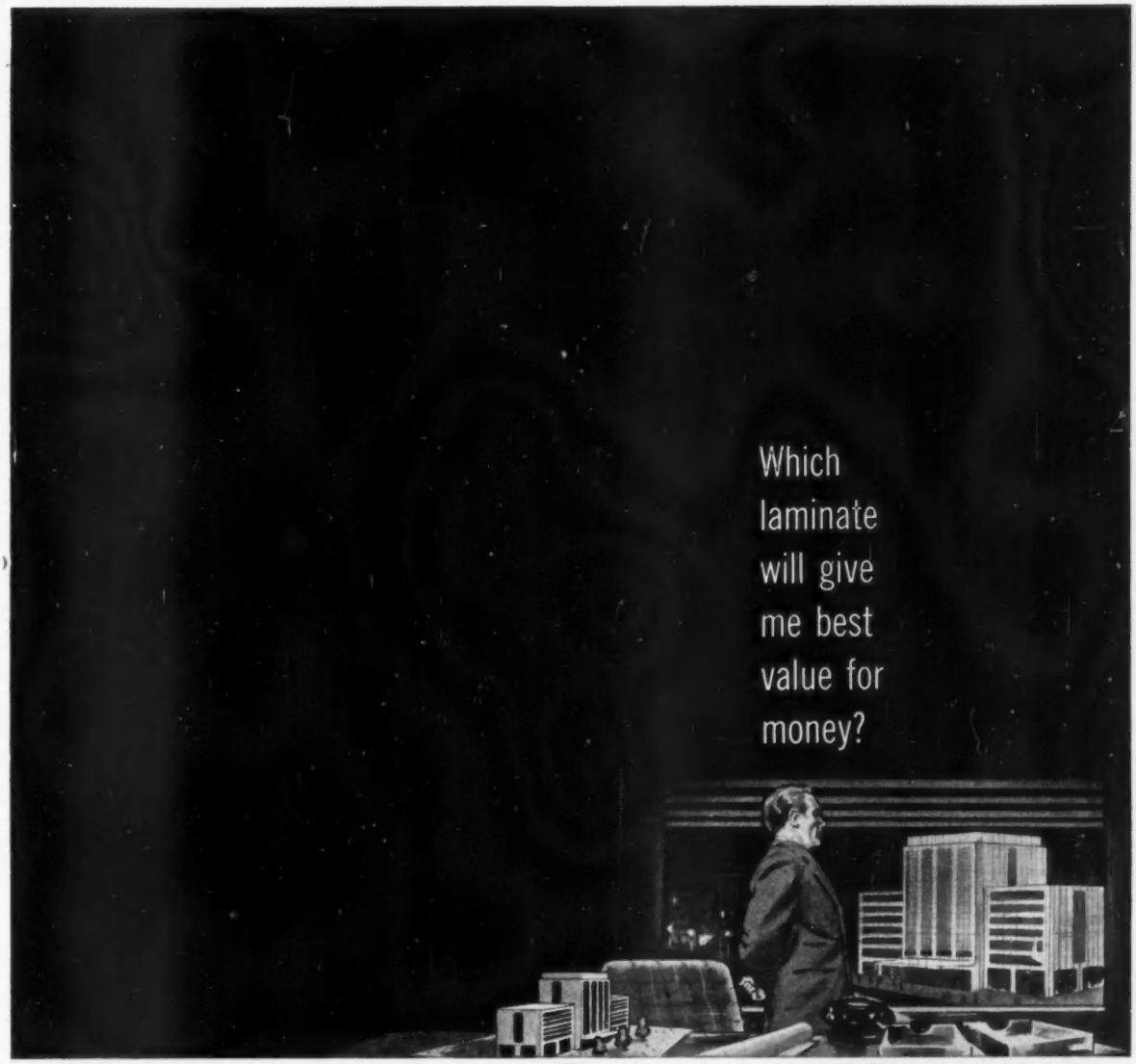
Several sizeable towns, such as Norwich, Cambridge, Oxford and Brighton, already serve as regional centres and might be encouraged to fill this role even more satisfactorily. There are also other existing smaller centres, such as King's Lynn, which could be further developed for the same purpose, though on a more modest scale.

In the development of these centres and their neighbouring towns, the broad aim must be the creation of effective counter-magnets to London. In particular, the regional centres should be made into places which could attract branch or divisional offices of London firms and also attract firms which would otherwise seek to establish themselves in London. Their substantial expansion would achieve an economical investment of capital (including public services) and an economical use of land. It would also greatly assist the development of neighbouring towns.

### A Bold Proposal

(c) *East Anglia Development Corporation.*—Our third suggestion is rather more visionary but it is certainly not unrealistic. We believe that a more co-ordinated and integrated approach to the expansion of smaller towns should be attempted in one selected area. Lots of small unrelated schemes are administratively costly and slow, and may also leave much to be desired in their standards of architecture and town design. Moreover, it is difficult to interest industrialists and developers in their possibilities. By contrast, a single agency operating as required in a number of such towns could impart much more drive and vigour to the programme. Its powers in relation to industrial and commercial development, housing and public services, would be similar to those of a new town development corporation, but they would be deployed much more widely and (as a rule) used only sparingly in any one place. The aim would be to 'trigger-off' private and local authority schemes, through attracting new industries to small towns and through assisting the improvement of local services and the reshaping of town centres. This task would also be assisted by the provision of expert technical advice.

A special corporation with a roving commission would combine several of the advantages of private and statutory developers. In its financing it would not be subject to the strict limitations which inhibit substantial local authority expenditure on industrial and commercial projects. It would be much better placed than are the local planning authorities to search out firms looking for new locations, and to assist them on an economic basis with their problems of setting up in a new area. Its purpose would be to supplement, rather than supercede, the

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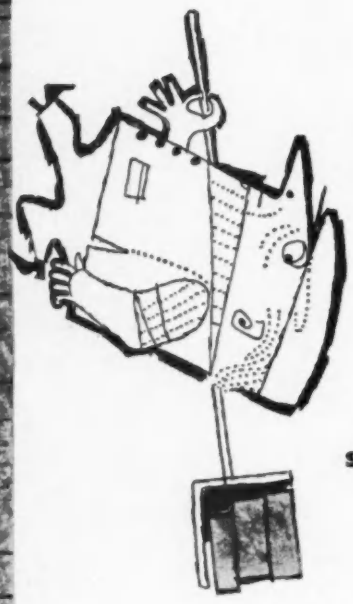

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efforts of local authorities.

We suggest that East Anglia would provide a suitable area for this venture. It contains many small towns which are anxious to expand but lack the means and facilities to do so. It is the most sparsely developed area in the general vicinity of London but it contains considerable opportunities for growth. These include a number of ports accessible to Europe and which could take much of the pressure off the Port of London. We would favour a steady rather than a rapid development, in such a way as to ensure that the distinctive character of East Anglia could be preserved and enhanced.

### Government Machinery

The Town Development and New Towns Acts will continue to provide the principal administrative machinery for assisting the expansion of appropriate towns. The Association has recently recommended to the Government improvements in the terms and administration of the Town Development Act. As improved, this Act could be of great value in promoting the relatively smaller scale expansions.

Wherever a larger expansion is considered, the New Towns Act machinery is much the more effective method. The Association has also suggested the appointment of a Development Corporation with a roving commission to promote the development of smaller towns in East Anglia, and with powers similar to those conferred under the New Towns Act.

Co-ordination of Government policies is still inadequate. In particular, the Board of Trade's policy should be brought into line with land-use planning objectives, through strengthening its control of industrial growth in the London area and through giving its approval to the transfer of industries to a wider range of reception towns.

It is now urgently necessary that a new series of advisory plans, which could revise and replace those produced around the end of the last war, be prepared for the principal urban regions of Britain. We ask the Minister to commission such plans as a matter of immediate importance. One such plan ought to cover the entire region bounded by a line drawn from the Wash, through Oxford to the Solent. This plan would be drawn up in close consultation with Government departments and local planning authorities, and should contain 20-year development proposals concerning major communications, broad population and employment targets, and the location of substantial new developments. This plan would provide a framework for the development plans of county and county borough councils in the region. It would also go a long way to securing much-needed consistency in central Government policies.

### Conclusion

The strong and diverse forces at work will not wait patiently on the slow evolution of a satisfactory planning policy. Nor can palliatives amount to a policy. Within twenty-five miles of central London, little remains unused of the land allocated for development in the county plans. Decisions must be made soon as to where the great and inevitable growth is to take place; and unless these decisions form part of a coherent and positive set of development proposals for the London Region and its wider hinterland, green belt preservation becomes an increasingly difficult policy to justify.

The pressures are great and they are growing. They bid fair to change dramatically for the worse the whole face of south-east England. The choice is therefore to plan or not to plan, but either course involves the making of a decision. Britain's efforts since the war to control development in the interests of efficiency, comfort and seemliness have won the admiration of town planners the world over. But if the challenge has never been greater, neither has the opportunity.

# *Complaint to the Council on Tribunals*

## 'Proper Procedure' Followed by Minister of Housing and Local Government

BY OUR PARLIAMENTARY CORRESPONDENT

IN GIVING his decision on the first complaint referred to him by the Council on Tribunals, the Lord Chancellor (Viscount Kilmuir) has vindicated the actions of Mr. Henry Brooke, Minister of Housing and Local Government. The report to the Lord Chancellor by the Council on Tribunals concerned a planning decision in the Saffron Walden area, which formed the subject of a leading article in 'The Builder' recently (April 21) and which had been the subject of questions in both Houses of Parliament.

In a written reply on April 20, the LORD CHANCELLOR stated: 'My conclusion is that in this case the Minister of Housing and Local Government acted strictly in accordance with the procedure approved by the Government following the report of the Franks Committee. I also think, following my review of it in this case, that the procedure is a proper one, given the nature of the Minister's jurisdiction.'

### The Lord Chancellor's Review

The Lord Chancellor's review is the outcome of a complaint by an Essex landowner, Major Aubrey Buxton, after Mr. Brooke had allowed a planning appeal by Messrs. Heath and Son Ltd. for permission to win and work chalk on their land. The Lord Chancellor, stating in reply to a question by Lord Silkin that he had made a very full examination of the procedure followed by the Minister of Housing and Local Government on this appeal, explained that the complaint was that in deciding to allow this appeal the Minister relied on advice which he obtained after the inspector had reported from the Minister of Agriculture without affording to those who had taken part in the inquiry an opportunity of commenting on this advice. It was further complained that the proposal to win and work the chalk was known to have the support of the Ministry of Agriculture but that department was not represented at the inquiry.

The Lord Chancellor in his long reply sets out what happened on appeal and then explains what is the procedure which the Government decided to adopt in cases of this kind following the report of the Committee on Administrative Tribunals. He said:

'To deal first with the position of the Minister of Agriculture, he is, among other things, concerned with the production of chalk from the standpoint of the demand for agricultural chalk and the eligibility of particular proposals for winning chalk for agricultural lime subsidy. It was solely from this point of view that the officer of that Department concerned with lime production informed Messrs. Heath that their proposals would be regarded as acceptable; he was not concerned with the application for planning permission. Indeed, I understand that when he was first consulted on the matter he was not aware that the existing planning permission was shortly due to expire and that fresh permission would be needed.

'Officers of the Agricultural Land Service of the Ministry of Agriculture advise planning authorities on applications involving loss of agricultural land, and it is they who are concerned with planning applications which affect the use of land. Although the local officer of this Service was made aware of Messrs. Heath's application, and attended a preliminary site meeting with the agricultural lime officer, the planning authority in fact reached their decision without waiting for his comments; and as no loss of agricultural land was in any event involved he never made any.

'There was thus no question of the attendance of any officer of the Ministry of Agriculture at the appeal inquiry. The Ministry's concern with Messrs. Heath's proposals from the standpoint of agricultural lime production and lime subsidy may have given rise to some misconception as to the part it played in connection with the planning application. These two things are quite separate, but this may not have been understood locally. It may have been thought locally that the Ministry were committed to supporting the applicants in their appeal; but there was in fact no justification for any such belief. It is the standing practice of the Ministry where they are concerned with the production aspect of any proposal to leave the developers to make out their own case for planning permission.

### The Need for Chalk

'Coming now to the action of the Minister of Housing and Local Government, it was clear to him, on receiving his inspector's report, that the inquiry had raised two main issues. One was the need for the production of chalk in the area; the other was the damage which the operations might cause to neighbouring interests. But his conclusion, after considering the evidence, was that the case really turned on the second point—viz., whether the winning and working of chalk on the particular site would cause an unacceptable degree of damage. On this the

inspector had reported that the appellants proposed to use the "kibbling" method (which means a process whereby large lumps of soft minerals are crushed and torn to produce small lumps) to meet the fears which had been expressed that chalk dust would be blown about, but said, nevertheless, that he was not satisfied that chalk "ground from a maximum of 1 inch diameter down to powder size" would not be blown out of the pit during windy weather. He therefore recommended that the appeal be dismissed.

'The Minister concluded that on this point he must be advised by those with expert knowledge of the effects of chalk working on neighbouring land; and he therefore consulted the experts in his own Department (the alkali inspectors) on the point. They, having considered the evidence at the inquiry, advised him that there was no real likelihood of dust emission in this case on such a scale as to cause trouble; and in giving that advice they assumed that the "kibbling" method would be used, as the inspector had been assured that it would be. But the Minister also thought it right to consult the Minister of Agriculture, partly because of his concern with the production of chalk for agricultural purposes, but mainly because it had been argued at the inquiry on behalf of neighbouring owners that there would be dust which might be detrimental to crops and animals, on which point of course the expert knowledge is to be found in the Ministry of Agriculture.

'The experts confirmed the view already expressed by those in the Ministry of Housing. They said that in their opinion there was unlikely to be dust nuisance from the proposed working, even in the driest weather, and that even if some dust were dispersed beyond the site the quantity would not be sufficiently large to have any deleterious effects on crops or livestock. The Minister of Agriculture also expressed agreement with the evidence produced by the appellants at the inquiry about production need.

The Minister of Housing and Local Government therefore decided to allow the appeal; but in doing so he made it a condition (in addition to others designed to protect neighbouring interests) that no crushing and no processing of chalk other than kibbling should take place on the site.

### The Government's View

'I come now to the Government's view of the proper procedure in cases of this kind. Following the Report of the Franks Committee the Government announced that they were able to accept wholly or substantially the great majority of the detailed recommendations. So far as the Ministry of Housing was concerned, this was followed up by a circular (No. 9/58) setting out the changes to be adopted in their procedures to carry out the decision of the Government, and the material paragraph for the present purpose was paragraph 20, which read:—

> "If new factual evidence is brought to the Minister's notice from any source after an inquiry, and in his view, it may be a material factor in the decision, he will give the parties an opportunity of commenting on it. If the Minister considers it necessary, the inquiry will be reopened."

'I think that there has been some misunderstanding in this case about the meaning to be attached to the words "new factual evidence"; and that may be partly due to the fact that the Franks Committee, in their recommendation, said that "factual evidence" should include "expert evidence," and in paragraph 350 of their Report sought to draw a distinction between "expert opinion on matters of fact" which ought in their opinion to be disclosed as "factual evidence" and "expert assistance in the evaluation of technical evidence given at the inquiry" which they agreed should not be disclosed.

'The Government were unable to accept this distinction. They have always been clear that new factual evidence which ought to be disclosed could not include technical or other advice given by Government officials on the issues raised at the inquiry and on the weight to be attached to evidence submitted there. Ministers must be free to seek such advice, and cannot be obliged to disclose the advice tendered to them by officials before they come to a decision. The Minister must inform himself, on the best advice available to him, on the right conclusions to be drawn from the argument, and those interested in the application cannot expect to be brought into this process; always provided that if any new factual evidence in the sense I have indicated—or any new issue which may affect the decision—is brought to his notice that must be disclosed for comment before he reaches a conclusion.

### 'No New Evidence

'In this connection I must make it clear that the Government do not consider that there is any distinction to be drawn between experts who may happen to be in the Department of the deciding Minister and experts in another Department. The way in which the work of Government happens to be organised is neither here nor there for this purpose. In the case under consideration no new factual evidence, no new issue, was brought to the Minister's notice. He simply received confirmation of the appellants' argument that chalk from the appeal site would make a useful contribution to the area, and advice on the argument which had taken place at the inquiry about the damage which the chalk might be expected to cause; and his advice was that on this point the inspector's conclusion could not be supported, given the conditions which were to be imposed.

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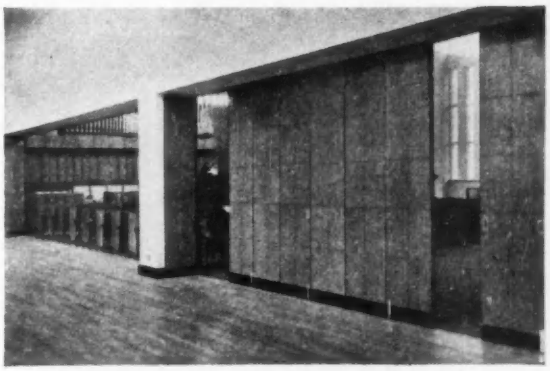

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inspector had reported that the appellants proposed to use the "kibbling" method (which means a process whereby large lumps of soft minerals are crushed and torn to produce small lumps) to meet the fears which had been expressed that chalk dust would be blown about, but said, nevertheless, that he was not satisfied that chalk "ground from a maximum of 1 inch diameter down to powder size" would not be blown out of the pit during windy weather. He therefore recommended that the appeal be dismissed.

'The Minister concluded that on this point he must be advised by those with expert knowledge of the effects of chalk working on neighbouring land; and he therefore consulted the experts in his own Department (the alkali inspectors) on the point. They, having considered the evidence at the inquiry, advised him that there was no real likelihood of dust emission in this case on such a scale as to cause trouble; and in giving that advice they assumed that the "kibbling" method would be used, as the inspector had been assured that it would be. But the Minister also thought it right to consult the Minister of Agriculture, partly because of his concern with the production of chalk for agricultural purposes, but mainly because it had been argued at the inquiry on behalf of neighbouring owners that there would be dust which might be detrimental to crops and animals, on which point of course the expert knowledge is to be found in the Ministry of Agriculture.

'The experts confirmed the view already expressed by those in the Ministry of Housing. They said that in their opinion there was unlikely to be dust nuisance from the proposed working, even in the driest weather, and that even if some dust were dispersed beyond the site the quantity would not be sufficiently large to have any deleterious effects on crops or livestock. The Minister of Agriculture also expressed agreement with the evidence produced by the appellants at the inquiry about production need.

The Minister of Housing and Local Government therefore decided to allow the appeal; but in doing so he made it a condition (in addition to others designed to protect neighbouring interests) that no crushing and no processing of chalk other than kibbling should take place on the site.

### The Government's View

'I come now to the Government's view of the proper procedure in cases of this kind. Following the Report of the Franks Committee the Government announced that they were able to accept wholly or substantially the great majority of the detailed recommendations. So far as the Ministry of Housing was concerned, this was followed up by a circular (No. 9/58) setting out the changes to be adopted in their procedures to carry out the decision of the Government, and the material paragraph for the present purpose was paragraph 20, which read:—

> "If new factual evidence is brought to the Minister's notice from any source after an inquiry, and in his view, it may be a material factor in the decision, he will give the parties an opportunity of commenting on it. If the Minister considers it necessary, the inquiry will be reopened."

'I think that there has been some misunderstanding in this case about the meaning to be attached to the words "new factual evidence"; and that may be partly due to the fact that the Franks Committee, in their recommendation, said that "factual evidence" should include "expert evidence," and in paragraph 350 of their Report sought to draw a distinction between "expert opinion on matters of fact" which ought in their opinion to be disclosed as "factual evidence" and "expert assistance in the evaluation of technical evidence given at the inquiry" which they agreed should not be disclosed.

'The Government were unable to accept this distinction. They have always been clear that new factual evidence which ought to be disclosed could not include technical or other advice given by Government officials on the issues raised at the inquiry and on the weight to be attached to evidence submitted there. Ministers must be free to seek such advice, and cannot be obliged to disclose the advice tendered to them by officials before they come to a decision. The Minister must inform himself, on the best advice available to him, on the right conclusions to be drawn from the argument, and those interested in the application cannot expect to be brought into this process; always provided that if any new factual evidence in the sense I have indicated—or any new issue which may affect the decision—is brought to his notice that must be disclosed for comment before he reaches a conclusion.

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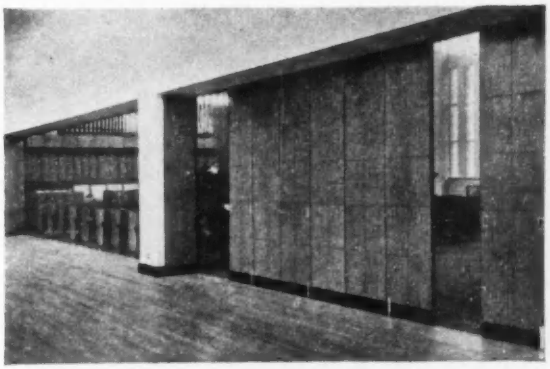

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# THE BUILDER LONDON MEASURED RATES

These prices for new building work in London normally appear in the first issue of each month only. The prices are inclusive of all allowances for National Insurance, Holidays with Pay and Public Holidays, Third Party Risk, Travelling Allowances and Guaranteed Week. They cover a profit of 10 per cent on the prime cost without any addition for establishment charges.

These rates do not include for Foremen and other preliminary items, such as office, sheds, plant and scaffolding, etc., and these must be added accordingly.

The basic cost of the labour and materials used in arriving at the rates has been derived from the 'Current Prices of Materials' published in *The Builder*.

The data given are copyright. While every endeavour is made to ensure accuracy, we do not hold ourselves responsible for any error that may occur.—EDITOR.

## EXCAVATOR

| *All hand labour* | *Per yd. cube* | | | | |
|---|---|---|---|---|---|
| | *Loose earth* | *Firm soil* | *Stiff clay* | *Chalk and flints* | *Rock, etc., no blasting* |
| | s. d. | s. d. | s. d. | s. d. | s. d. |
| Surface excavation to shallow depths ... ... ... ... | 8 3 | 10 3 | 11 9 | 17 10 | 46 0 |
| Bulk do. or large trenches, etc., not exceeding 5 ft. deep ... | 7 6 | 9 4 | 10 9 | 15 10 | 42 0 |
| Trenches do. under 4 ft. 6 in. wide and do. ... ... | 10 0 | 12 1 | 14 0 | 20 8 | 55 0 |
| Pier holes and similar under 6 ft. square and do. ... ... ... | 11 3 | 13 10 | 16 2 | 23 9 | 61 6 |
| Additional throw for every 5 ft.: | | | | | |
| Bulk excavation ... ... ... | 3 9 | 3 9 | 5 5 | 5 5 | 6 2 |
| Trench ,, ... ... ... | 5 0 | 5 0 | 6 8 | 6 8 | 7 8 |
| Pier ,, ... ... ... | 5 7 | 5 7 | 7 6 | 7 6 | 8 6 |
| Return, fill and ram ... ... | 5 2 | 5 2 | 6 8 | 6 8 | 8 2 |
| Wheeling surplus n.e. 100 yds. run and depositing ... ... | 7 2 | 8 0 | 8 0 | 8 0 | 9 0 |
| Underpinning in trenches ... | 13 4 | 18 6 | 21 6 | 30 9 | — |

| | | s. d. |
|---|---|---|
| Loading lorries and transporting to tip ... ... ... | Yd. cube | 16 5 |
| Basketing out and depositing ... ... ... ... | ,, | 10 0 |
| Planking and strutting to sides of surface or basement trenches : | | |
| Depth up to 5 ft. ... ... ... ... ... ... | Ft. sup. | 6 |
| ,, ,, 10 ft. ... ... ... ... ... ... | ,, | 8 |
| ,, ,, 15 ft. ... ... ... ... ... ... | ,, | 9 |
| Hardcore : | | |
| Filled-in layers and consolidated ... ... ... | Yd. cube | 22 3 |
| do. 4 in. thick ... ... ... ... ... | Yd. sup. | 3 3 |
| do. 6 in. thick ... ... ... ... ... | ,, | 4 4 |

## CONCRETER

| | *Basic yard cube rates* | | | |
|---|---|---|---|---|
| | 1 : 12 | 1:3:6 | 1:2:4 | 1:1½:3 |
| Aggregate ... ... ... ... ... | 1½ in. all-in | 1½ in. | ¾ in. | ½ in. |
| Concrete in normal foundations : (minimum 6-ton cement loads)— | s. d. | s. d. | s. d. | s. d. |
| Portland cement standard specification ... ... ... ... ... | 66 6 | 74 6 | 81 8 | 85 10 |
| Portland cement rapid hardening... | 67 9 | 76 4 | 84 2 | 89 2 |
| Water-repellent cement ... ... | 70 6 | 80 3 | 89 11 | 96 4 |

| | | s. d. |
|---|---|---|
| Add to above basis for : | | |
| 4 in. surface beds ... ... ... ... ... ... | Yd. sup. | 7½ |
| 6 in. ,, ,, ... ... ... ... ... ... | ,, | 8½ |
| (If above two items worked around mesh reinforcement, add 5d. per yd. *super.*) | | |
| Foundations in underpinning in short lengths... ... | Yd. cube | 16 4 |
| Beds and flaunchings to drains ... ... ... ... | ,, | 8 2 |
| Pier or stanchion foundations—small ... ... ... | ,, | 4 1 |
| Sundry small items not exceeding 3 ft. cube in plinths, curbs, padstones, etc. ... ... ... ... ... | ,, | 21 6 |

## REINFORCED CONCRETE

*ADD to above 'Basic Yard Cube Rates'*

| | | s. d. |
|---|---|---|
| Reinforced concrete including working around reinforcement between formwork and hoisting to normal levels : | | |
| Foundations and similar ... ... ... ... ... | Yd. cube | 5 5 |
| Isolated stanchion or pier bases ... ... ... ... | ,, | 6 5 |
| walls not exceeding 6 in. thick ... ... ... ... | ,, | 26 8 |
| ,, ,, ,, 12 in. ,, ... ... ... ... ... | ,, | 18 8 |
| Suspended floors or flat roofs 4½ in. thick ... ... | Yd. cube | 21 6 |
| ,, ,, ,, ,, 6 in. ,, ... ... | ,, | 17 5 |
| ,, ,, ,, ,, 9 in. ,, ... ... | ,, | 14 10 |
| (Beams attached to floors or flats, *add* 6/8 yd. cube) | | |
| Isolated beams or lintels average 72 sectional inches ... | ,, | 32 3 |
| Do. average 144 sectional inches ... ... | ,, | 24 1 |
| Columns or stanchions average 72 sectional inches | ,, | 37 8 |
| ,, ,, ,, ,, 144 ,, ,, | ,, | 29 5 |
| Staircases and landings, etc. ... ... ... ... ... | ,, | 56 1 |
| Shell roofs average 3 in. thick, including labour forming curved surface ... ... ... ... ... ... | ,, | 133 3 |
| *Hollow tile floors :* | | |
| Hollow clay tiles 4 in. thick with 1 : 2 : 4 concrete ribs at 14 in. centres with filler tiles and 1½ in. fine concrete screed (excluding reinforcement and form work) ... ... ... ... ... ... | Yd. sup. | 19 4 |
| All as above but 6 in. thick clay tiles ... ... ... | ,, | 23 5 |
| ,, ,, ,, ,, 9 in. ,, ,, ,, ... ... ... | ,, | 32 7 |
| *Sundry items :* | | |
| 2 in. concrete (1 : 2 : 4) blinding bed ... ... | Yd. sup. | 5 0 |
| Spade finish to concrete beds ... ... ... ... | ,, | 10 |
| Trowel ,, ,, ,, ... ... ... ... | ,, | 1 10 |
| Laying to falls and currents ... ... ... ... | ,, | 1 0 |
| Hacking concrete by hand ... ... ... ... | ,, | 2 8 |
| Hacking concrete by use of proprietary liquids ... | ,, | 1 7 |
| Damp-proof membrane in three coats with sanded key ... ... ... ... ... ... ... | ,, | 4 10 |
| ⅜ in. Bitumen expansion joints 4 in. deep in floors ... | Yd. run | 3 11 |

| | *Mild steel rods (round) cut, bent, hooked, wired and fixed complete (Ex. London Stock)* | | | |
|---|---|---|---|---|
| | ¼ in. | ⅜ in. | ½ in. | ⅝ to 1 in. |
| *Reinforcement :* | s. d. | s. d. | s. d. | s. d. |
| Floors beams laid in only ... | 88 6 | 79 4 | 73 8 | 70 3 |
| ,, ,, ,, wired into frames | 100 7 | 90 0 | 85 10 | 80 3 |
| Walls wired into frames ... ... | 100 7 | 90 0 | 85 10 | 80 3 |
| Columns wired into frames ... | 100 7 | 90 0 | 85 10 | 80 3 |
| Staircases wired into frames ... | 102 11 | 92 4 | 88 2 | 82 7 |

| | | s. d. |
|---|---|---|
| *Steel mesh fabric reinforcement :* | | |
| Laid in floors including laps and straight cutting and wiring, etc. : | | |
| Weight 3·94 lb. per yd. sup. ... ... ... ... | Yd. sup. | 4 3 |
| ,, 4·71 lb. ,, ,, ,, ... ... ... ... | ,, | 4 6 |
| ,, 9·32 lb. ,, ,, ,, ... ... ... ... | ,, | 8 4 |
| Raking cutting worth 6 in. material cost per ft. run | | |
| Circular cutting worth 9 in. material cost per ft. run. | | |
| *Formwork (Sawn) including strutting, easing and removal and average four times use of timber :* | | |
| Soffit of floors and flat roofs ... ... ... ... | Yd. sup. | 16 9 |
| Sloping soffits of stairs ... ... ... ... ... | ,, | 22 10 |
| Barrel-vault soffits of floors and roofs ... ... | ,, | 21 4 |
| Vertical sides of walls ... ... ... ... ... | ,, | 16 0 |
| Battering sides of walls ... ... ... ... ... | ,, | 20 10 |
| Columns ... ... ... ... ... ... ... ... | Ft. sup. | 2 5 |
| Lintels and beams ... ... ... ... ... ... | ,, | 2 7 |
| Staircase strings cut to tread and riser ... ... | Ft. run | 3 7 |
| Edges of concrete floors, etc., up to 12 in. deep per inch in height ... ... ... ... ... ... | ,, | 2¼ |
| Rebates or similar per inch girth up to 6 in. girth... | ,, | 2½ |
| Raking cutting ... ... ... ... ... ... | ,, | 8½ |
| Extra cost for wrought shuttering and labour rubbing down to leave fair face on concrete ... | Yd. sup. | 2 7 |
| *Pre-cast Concrete (1 : 2 : 4) including fair face :* | | |
| 4½ in. x 6 in.reinforced lintels ... ... ... ... | Ft. run | 3 0 |
| 9 in. x 6 in. ,, ,, ... ... ... ... | ,, | 5 3 |
| 9 in. x 9 in. ,, ,, ... ... ... ... | ,, | 8 7 |
| *Steel Formwork :* | | |
| Steel shuttering forms with patent expanding floor centres and telescopic props not less than four times use on each job with continuous use ... | Yd. sup. | 11 6 |

| *Partitions : (Minimum 100 yd. super)* | *Yd. super rate* | | | |
|---|---|---|---|---|
| | *2 in.* | *3 in.* | *4 in.* | *6 in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Clinker concrete slab partitions in cement mortar ... ... ... | 9 8 | 12 2 | 14 2 | — |
| Cranham terra cotta slab partitions in cement mortar ... ... ... | 14 1 | 17 0 | 20 0 | — |
| Moler partition block partitions in cement mortar ... ... ... | 19 10 | 23 0 | 25 11 | — |
| Thermalite-Ytong partition blocks in cement mortar ... ... ... | — | 15 8 | 19 4 | 27 7 |
| 'Phorpres' hollow clay partition blocks in min. of 6-ton loads ... | 10 3 (2½ in.) | 12 2 | 15 2 | 24 11 |

*Cuttings :*

Raking cutting and waste = ⅓ of ft. sup. rate
Circular „ „ „ = ½ of ft. sup. rate
Cutting around openings = ¼ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

## BRICKLAYER

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *Plain flettons* | *Rough stocks* | *Second stocks* | *Blue wire-cuts* |
| | s. d. | s. d. | s. d. | s. d. |
| Brickwork in cement mortar (1 : 3) reduced to one brick thick ... ... | 38 5 | 51 8 | 61 4 | 92 4 |
| *Deduct if in* 1 : 1 : 6 cement-lime mortar ... ... ... ... ... | 10 | 10 | 10 | 10 |
| *Add if in :* | | | | |
| Filling in openings ... ... ... | 5 8 | 5 8 | 5 11 | 7 2 |
| Backing to masonry ... ... ... | 2 10 | 2 10 | 3 0 | 3 8 |
| Building overhand ... ... ... | 1 10 | 1 10 | 1 11 | 2 2 |
| Raising on existing work ... ... | 2 10 | 2 10 | 3 0 | 3 8 |
| Circular on plan to quick sweep ... | 5 6 | 5 6 | 5 9 | 6 10 |
| Small detached piers, plinths, etc. | 8 4 | 8 4 | 8 9 | 10 5 |
| Underpinning ... ... ... ... | 5 6 | 5 6 | 5 10 | 6 11 |
| Brick-on-edge walls ... ... ... | 13 2 | 18 2 | 21 2 | — |
| Half-brick sleeper walls honeycombed | 13 9 | 18 7 | — | — |
| Half-brick walls ... ... ... ... | 21 6 | 29 3 | 33 11 | 50 8 |
| do. with fair face and pointing both sides as work proceeds ... ... | 24 8 | — | 37 3 | 54 6 |
| One-brick wall with fair face and pointing both sides as work proceeds ... ... ... ... ... | 43 8 | — | 66 4 | 98 2 |
| 11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup. ... ... ... | 46 3 | — | 71 2 | — |

| *Sundry items :* | | s. d. |
|---|---|---|
| Horizontal double slate damp-proof course ... | Ft. sup. | 3 4 |
| Vertical „ „ „ „ ... | „ | 4 1 |
| Hessian-base bitumen damp-proof course ... ... | „ | 1 6 |
| Levelling and preparing for raising on ... ... | „ | 1 0½ |
| Cutting, toothing and bonding new to old ... ... | „ | 3 8 |
| Wedging and pinning with slates in underpinning ... | „ | 5 2 |
| Rough cutting ... ... ... ... ... ... ... | „ | 6 |
| Cutting and fitting brickwork around steel ... ... | „ | 6 |
| Bed and point frame one side ... ... ... | Ft. run | 4 |
| Rough cutting squint or birdsmouth ... ... ... | „ | 6½ |
| Labour plumbing angles on faced work ... ... | „ | 2½ |
| Rake out and point to lead flashing ... ... ... | „ | 7½ |
| „ „ „ „ stepped flashing ... ... ... | „ | 10½ |
| Cutting groove for skirting and point ... ... | „ | 1 7 |
| Shallow chases for small pipes and conduit ... ... | „ | 1 9 |
| Metal reinforcement 24 gauge 2½ in. wide ... ... | „ | 4½ |

*Faced work : (Flemish bond) :*

| | | |
|---|---|---|
| *Add or deduct* for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work ... ... ... ... ... | Yd. sup. | 9 |
| do. to half-brick wall in stretcher bond ... ... | „ | 6½ |
| *Add* for extra labour to each side in facings and pointing as work proceeds ... ... ... ... | „ | 3 2 |
| do. butt joints raked out and pointed with special mortar ... ... ... ... ... ... ... | „ | 6 3 |

If built in English bond, add 12½ per cent to above items.

*Labours :*

| | | |
|---|---|---|
| Fair cutting ... ... ... ... ... ... ... | Ft. run | 1 1½ |
| Fair circular cutting ... ... ... ... ... | „ | 1 4 |
| Fair squint or birdsmouth cutting ... ... ... | „ | 1 9 |

| *Copings :* | | *9 in. wall* | *14 in. wall* |
|---|---|---|---|
| | | s. d. | s. d. |
| Brick-on-edge coping in flettons finished fair and pointing as work proceeds ... | Ft. run | 2 5 | 3 3 |
| Add for every increase by 10s. per 1,000 in cost of superior bricks ... ... ... | „ | 1 | 1½ |
| Add for two courses of roofing tiles under and cement weather fillets on both sides | „ | 3 7 | 4 4 |
| *Cills :* | | | |
| Two courses of roofing tiles laid breaking joint in cement mortar, set weathering and pointing ... | Ft. run | 3 7 | |
| *Arches :* | | | |
| Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing ... ... ... ... | Ft. run | 3 7 | |
| Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately) ... ... ... | Ft. sup. | 9 3 | |

## CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

## PAVIOR

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *½ in.* | *¾ in.* | *1 in.* | *1¼ in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Cement screed (1 : 3) to receive pavings ... ... ... ... ... | 4 5 | 5 3 | 6 1 | 6 11 |

| *Add to above for :* | | d. |
|---|---|---|
| Trowelling smooth ... ... ... ... ... ... | Yd. sup. | 7 |
| Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls ... ... ... | „ | 4 |

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *1 in.* | *1¼ in.* | *1½ in.* | *2 in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Granolithic paving (1 : 2½) laid on concrete ... ... ... ... ... | 8 9 | 9 11 | 12 0 | 13 2 |

*Add to above for :*

| | | s. d. |
|---|---|---|
| Narrow widths or small quantities—add 25 per cent to plain surfaces. | | |
| Surface hardening with three coats of silicate of soda ... ... ... ... ... ... ... ... | Yd. sup. | 1 5 |
| Carborundum finish with 2 lb. per yd. sup. trowelled in ... ... ... ... ... ... ... ... | „ | 3 0 |
| ¾ in. skirting 5 in. high covered at bottom and fair top edge ... ... ... ... ... ... ... | Ft. run | 2 9 |
| Mitres and ends—7d. each. | | |
| Composition flooring ½ in. thick ... ... ... | Yd. sup. | 18 0 |
| Terrazzo paving ⅜ in. thick ... ... ... ... | „ | 45 0 |
| Rubber flooring ¼ in. thick ... ... ... ... | „ | 65 0 |

## ASPHALTER

| *Asphalt roofing .* | | *Mastic BSS 988* | *Natural rock BSS 1162* |
|---|---|---|---|
| | | s. d. | s. d. |
| ¾ in. flat to falls in two thicknesses on felt underlay on prepared screed ... ... | Yd. sup. | 14 3 | 20 0 |
| do. in small quantities or narrow widths | Ft. sup. | 2 0 | 2 9 |
| 6 in. high skirting with angle fillet and splayed edge at top ... ... ... ... | Ft. run | 2 7 | 3 0 |
| External angles on do. ... ... ... | No. | 7 | 7 |
| Internal angles on do. ... ... ... | „ | 7 | 7 |

| *Asphalt Damp-proof Course and Tanking :* | | *Mastic BSS 1097* | *Natural rock BSS 1418* |
|---|---|---|---|
| | | s. d. | s. d. |
| Vertical damp-proof course in 2 thicknesses | Yd. sup. | 21 0 | 27 0 |
| do. in narrow widths ... ... | Ft. sup. | 2 6 | 3 4 |
| ¾ in. Horizontal damp-proof course in two thicknesses ... ... ... ... ... | Yd. sup. | 14 4 | 19 9 |
| do. in narrow widths ... ... | Ft. sup. | 1 10 | 2 6 |
| Vertical tanking in three thicknesses ... | Yd. sup. | 25 0 | 31 4 |
| 1½ in. Horizontal do. in three thicknesses | „ | 19 3 | 29 2 |
| Labour double angle fillet ... ... ... | Ft. run | 1 4 | 1 4 |

## DRAINLAYER

| | Per yd. run Depth of trench | | | | |
|---|---|---|---|---|---|
| | 2 ft. | 3 ft. | 4 ft. | 5 ft. | 10 ft. |
| | s. d. | s. d. | s. d. | s. d. | s. d. |
| Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rates) ... ... | 9 3 | 21 7 | 28 10 | 36 0 | 106 3 |

| | Per yd. run | | |
|---|---|---|---|
| | 4 in. | 6 in. | 9 in. |
| | s. d. | s. d. | s. d. |
| Concrete (1: 6–1½ in agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides ... ... ... | 8 0 | 8 10 | 11 3 |
| do. but 6 in. bed and do. ... ... | 9 7 | 11 3 | 13 7 |
| do. but 4 in. bed and surround to pipe | 11 7 | 14 5 | 19 0 |
| do. but 6 in. bed and surround to pipe | 15 7 | 18 10 | 23 9 |
| | Per ft. run | | |
| *Salt glazed drain pipes* laid and jointed in trench (Minimum two-ton loads): | 4 in. | 6 in. | 9 in. |
| | s. d. | s. d. | s. d. |
| 'Seconds' ... ... ... ... ... | 2 8½ | 3 10 | 6 1 |
| 'Best' ... ... ... ... ... ... | 2 11 | 4 2½ | 6 9½ |
| 'Best Tested' ... ... ... ... ... | 3 7½ | 5 1½ | 8 7 |
| 'British Standard' ... ... ... | 3 1¼ | 4 5½ | 7 3½ |
| 'British Standard Tested' ... ... ... | 3 8¾ | 5 5 | 8 11 |
| Extra for bends 'Best' quality ... ... ... | 4 0 | 5 10 | 16 11 |
| Extra for junctions 'Best' quality ... ... | 7 0 | 9 11 | 21 4 |
| *Cast-iron drain pipes* to BSS 437 laid and jointed with molten lead in trench ... ... ... | 15 3 | 22 6 | — |
| Extra for: | | | |
| Short lengths ... ... ... ... ... | 4 0 | 5 1 | — |
| Bends and extra joints ... ... ... ... | 22 6 | 59 0 | — |
| Junctions and do. ... ... ... ... | 46 3 | 102 8 | — |
| Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint ... ... ... ... ... | 45 2 | — | — |
| Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ... | 70 3 | — | — |
| Cast-iron inspection fittings with single branch fitting one side ... ... ... ... | 164 0 | — | — |

| | Per ft. run | | |
|---|---|---|---|
| | 3 in. | 4 in. | 6 in. |
| | s. d. | s. d. | s. d. |
| Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250) | 2 6 | 3 3 | 6 2 |

| *Manhole items:* | | 4 in. | 6 in. |
|---|---|---|---|
| | | s. d. | s. d. |
| Brown glazed stoneware straight half-round channels ... ... ... ... | Each | 5 4 | 7 8 |
| do. ordinary channel bends ... ... | ,, | 11 10 | 16 11 |
| Three-quarter section curved channel bends with splayed ends ... ... | ,, | 15 0 | 21 6 |
| Cast-iron heavy galvanised steps ... ... ... ... | Each | | 13 0 |
| Bedding and sealing medium weight manhole covers and frames (cost of cover to add) ... ... ... | ,, | | 10 0 |
| do. heavy road covers and frames ... ... ... | ,, | | 13 3 |

## MASON

| | | Per ft. cube | | |
|---|---|---|---|---|
| | | Bath | Portland | York |
| *Stone and all labours fixed in:* | | s. d. | s. d. | s. d. |
| Ashlar average 6¾ in. on bed ... | Ft. sup. | 32 8 | 37 5 | 39 0 |
| Moulded string course 9 in. x 6 in. | Ft. run | 28 4 | 31 0 | 33 10 |
| Moulded cornice 18 in. x 9 in. ... | ,, | 71 6 | 77 6 | 82 6 |
| Weathered and throated cills: | | | | |
| 9 in. x 3 in. ... ... ... ... | ,, | 17 10 | 19 3 | 20 7 |
| 12 in. x 6 in. ... ... ... ... | ,, | 35 9 | 38 0 | 40 2 |
| Weathered and throated copings: | | | | |
| 12 in. x 3 in. ... ... ... ... | ,, | 19 3 | 21 0 | 21 9 |
| 14 in. x 6 in. ... ... ... ... | ,, | 38 0 | 43 0 | 44 6 |
| Plinth rubbed top and face size: | | | | |
| 4½ in. x 9 in. ... ... ... ... | ,, | 19 6 | 21 9 | 21 0 |
| Plain steps, size 12 in. x 6 in. ... | ,, | — | — | 35 9 |
| ,, ,, ,, 14 in. x 2 in. ... | ,, | — | — | 16 9 |
| Riser, size 2 in. x 4 in. ... | ,, | — | — | 8 0 |
| 2 in. Sawn paving edges squared in random sizes ... ... ... ... | Yd. sup. | — | — | 98 0 |
| *Supplied only:* | | | | |
| Templates and cover stones coped edges ... ... ... ... ... | Ft. cube | — | — | 33 6 |

## ROOFER

| | Yd. sup. |
|---|---|
| | s. d. |
| Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS 747, covered with limestone or granite chippings n.e. ¼ in. thick ... ... | 10 0 |
| All as above but in three layers, the first and second layers in felt 45 lb. ... ... ... ... ... ... ... ... | 13 9 |

| | Steel Tees at | |
|---|---|---|
| | 2 ft. 0½ in. centres | 4 ft. 0½ in. centres |
| 2 in. compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking: | s. d. | s. d. |
| Areas of 50–100 yds. sup. ... ... ... | 27 8 | 21 4 |
| ,, 101–250 ,, ... ... ... | 26 10 | 20 9 |
| ,, 251–750 ,, ... ... ... | 26 0 | 20 3 |
| ,, Over 750 ,, ... ... ... | 25 2 | 19 4 |
| If 16G steel tees are used—Add to above ... | 1 5½ | 9 |

| *Welsh Slating* | | Per square | | |
|---|---|---|---|---|
| | | 16in.x8in. | 18in.x10in. | 20in.x10in. |
| | | s. d. | s. d. | s. d. |
| Laid with 3 in. lap and 2 zinc nails each slate ... ... ... | | 380 0 | 408 0 | 499 0 |
| *Additional labours:* | | | | |
| Top edge cutting ... | Ft. run | 9 | 9 | 9 |
| Square abutment do. | ,, | 9 | 9 | 9 |
| Double course at eaves... | ,, | 1 3 | 1 3 | 1 3 |
| Raking, cutting and waste | ,, | 11 | 11 | 11 |
| 1½ in. x ¾ in. slate battening for last ... ... ... | Per sq. | 36 9 | 33 0 | 29 3 |

| *Roof Tiling* | | Per square | | |
|---|---|---|---|---|
| | | Berkshire hand-made | Stafford machine made | Concrete Tiles |
| | | s. d. | s. d. | s. d. |
| Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails ... ... ... | | 264 0 | 253 0 | 163 3 |
| 1 in. x ¾ in. tile battening for last ... ... | | 39 6 | 39 6 | 39 6 |
| *Additional labours:* | | | | |
| Top edge cutting ... ... | Ft. run | 9 | 9 | 9 |
| Square abutments do. ... | ,, | 9 | 9 | 9 |
| Raking cutting to hips ... | ,, | 11 | 11 | 11 |
| Eaves course ... ... ... | ,, | 11 | 11 | 11 |
| Half-round ridge and hip tiles | ,, | 2 11 | 2 11 | 2 11 |

## CARPENTER AND JOINER

| | Ft. cube | | | |
|---|---|---|---|---|
| | Plates | Joists | Rafters & Partitions | Roof trusses |
| | s. d. | s. d. | s. d. | s. d. |
| Softwood carcassing, including all waste, nails, hoisting and fixing | 17 1 | 19 10 | 22 10 | 27 4 |

| | Per square | | |
|---|---|---|---|
| | ¾ in. | 1 in. | 1¼ in. |
| *Boarding and Flooring:* (Softwood): | s. d. | s. d. | s. d. |
| Rough boarding to flats and roof ... | 125 0 | 160 0 | 194 9 |
| Softwood plain edge flooring cleaned off | 155 0 | 173 6 | 211 0 |
| Tongued and grooved flooring cleaned off | 169 0 | 195 4 | 237 0 |

| | | |
|---|---|---|
| | | s. d. |
| Extra for 2 in. x 3 in. average firrings ... ... ... | Per sq. | 81 7 |
| Herringbone strutting to 2 in. x 8 in. joists ... ... | Ft. run | 1 10 |
| 1 in. gutter boarding and bearers ... ... ... | Ft. sup. | 3 9 |
| Raking cutting and waste on 1 in. flooring ... ... | Ft. run | 9 |
| *Composition Boards, etc.:* | | |
| ⅛ in. hardboard to BS 1142 fixed to vertical battens | Yd. sup. | 6 9 |
| ½ in. insulation board to BS 1142 do. do. | ,, | 6 11 |
| 1 in. woodwool slabs fixed to flat or sloping soffits | ,, | 9 7 |
| 2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super | ,, | 14 8 |
| ¼ in. flat asbestos sheeting fixed vertically .. ... | ,, | 11 0 |

| *Partitions : (Minimum 100 yd. super)* | *Yd. super rate* | | | |
|---|---|---|---|---|
| | *2 in.* | *3 in.* | *4 in.* | *6 in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Clinker concrete slab partitions in cement mortar ... ... ... | 9 8 | 12 2 | 14 2 | — |
| Cranham terra cotta slab partitions in cement mortar ... ... ... | 14 1 | 17 0 | 20 0 | — |
| Moler partition block partitions in cement mortar ... ... ... | 19 10 | 23 0 | 25 11 | — |
| Thermalite-Ytong partition blocks in cement mortar ... ... ... | — | 15 8 | 19 4 | 27 7 |
| 'Phorpres' hollow clay partition blocks in min. of 6-ton loads ... | 10 3 (2½ in.) | 12 2 | 15 2 | 24 11 |

*Cuttings :*

Raking cutting and waste = ⅓ of ft. sup. rate
Circular „ „ „ = ½ of ft. sup. rate
Cutting around openings = ¼ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

## BRICKLAYER

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *Plain flettons* | *Rough stocks* | *Second stocks* | *Blue wire-cuts* |
| | s. d. | s. d. | s. d. | s. d. |
| Brickwork in cement mortar (1 : 3) reduced to one brick thick ... ... | 38 5 | 51 8 | 61 4 | 92 4 |
| *Deduct if in* 1 : 1 : 6 cement-lime mortar ... ... ... ... ... | 10 | 10 | 10 | 10 |
| *Add if in :* | | | | |
| Filling in openings ... ... ... | 5 8 | 5 8 | 5 11 | 7 2 |
| Backing to masonry ... ... ... | 2 10 | 2 10 | 3 0 | 3 8 |
| Building overhand ... ... ... | 1 10 | 1 10 | 1 11 | 2 2 |
| Raising on existing work ... ... | 2 10 | 2 10 | 3 0 | 3 8 |
| Circular on plan to quick sweep ... | 5 6 | 5 6 | 5 9 | 6 10 |
| Small detached piers, plinths, etc. | 8 4 | 8 4 | 8 9 | 10 5 |
| Underpinning ... ... ... ... | 5 6 | 5 6 | 5 10 | 6 11 |
| Brick-on-edge walls ... ... ... | 13 2 | 18 2 | 21 2 | — |
| Half-brick sleeper walls honeycombed | 13 9 | 18 7 | — | — |
| Half-brick walls ... ... ... ... | 21 6 | 29 3 | 33 11 | 50 8 |
| do. with fair face and pointing both sides as work proceeds ... ... | 24 8 | — | 37 3 | 54 6 |
| One-brick wall with fair face and pointing both sides as work proceeds ... ... ... ... ... | 43 8 | — | 66 4 | 98 2 |
| 11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup. ... ... ... | 46 3 | — | 71 2 | — |

| *Sundry items :* | | s. d. |
|---|---|---|
| Horizontal double slate damp-proof course ... | Ft. sup. | 3 4 |
| Vertical „ „ „ „ ... | „ | 4 1 |
| Hessian-base bitumen damp-proof course ... ... | „ | 1 6 |
| Levelling and preparing for raising on ... ... | „ | 1 0½ |
| Cutting, toothing and bonding new to old ... ... | „ | 3 8 |
| Wedging and pinning with slates in underpinning ... | „ | 5 2 |
| Rough cutting ... ... ... ... ... ... ... | „ | 6 |
| Cutting and fitting brickwork around steel ... ... | „ | 6 |
| Bed and point frame one side ... ... ... ... | Ft. run | 4 |
| Rough cutting squint or birdsmouth ... ... ... | „ | 6½ |
| Labour plumbing angles on faced work ... ... | „ | 2½ |
| Rake out and point to lead flashing ... ... ... | „ | 7½ |
| „ „ „ „ stepped flashing ... ... ... | „ | 10½ |
| Cutting groove for skirting and point ... ... | „ | 1 7 |
| Shallow chases for small pipes and conduit ... ... | „ | 1 9 |
| Metal reinforcement 24 gauge 2½ in. wide ... ... | „ | 4½ |

*Faced work : (Flemish bond) :*

| | | |
|---|---|---|
| *Add or deduct* for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work ... ... ... ... ... | Yd. sup. | 9 |
| do. to half-brick wall in stretcher bond ... ... | „ | 6½ |
| *Add* for extra labour to each side in facings and pointing as work proceeds ... ... ... ... | „ | 3 2 |
| do. butt joints raked out and pointed with special mortar ... ... ... ... ... ... ... | „ | 6 3 |

If built in English bond, add 12½ per cent to above items.

*Labours :*

| | | |
|---|---|---|
| Fair cutting ... ... ... ... ... ... ... | Ft. run | 1 1½ |
| Fair circular cutting ... ... ... ... ... | „ | 1 4 |
| Fair squint or birdsmouth cutting ... ... ... | „ | 1 9 |

| *Copings :* | | *9 in. wall* | *14 in. wall* |
|---|---|---|---|
| | | s. d. | s. d. |
| Brick-on-edge coping in flettons finished fair and pointing as work proceeds ... | Ft. run | 2 5 | 3 3 |
| Add for every increase by 10s. per 1,000 in cost of superior bricks ... ... ... | „ | 1 | 1½ |
| Add for two courses of roofing tiles under and cement weather fillets on both sides | „ | 3 7 | 4 4 |
| *Cills :* | | | |
| Two courses of roofing tiles laid breaking joint in cement mortar, set weathering and pointing ... | Ft. run | 3 7 | |
| *Arches :* | | | |
| Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing ... ... ... ... | Ft. run | 3 7 | |
| Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately) ... ... ... | Ft. sup. | 9 3 | |

## CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

## PAVIOR

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *½ in.* | *¾ in.* | *1 in.* | *1¼ in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Cement screed (1 : 3) to receive pavings ... ... ... ... ... | 4 5 | 5 3 | 6 1 | 6 11 |

| *Add to above for :* | | d. |
|---|---|---|
| Trowelling smooth ... ... ... ... ... ... | Yd. sup. | 7 |
| Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls ... ... ... | „ | 4 |

| | *Yd. super rates* | | | |
|---|---|---|---|---|
| | *1 in.* | *1¼ in.* | *1½ in.* | *2 in.* |
| | s. d. | s. d. | s. d. | s. d. |
| Granolithic paving (1 : 2½) laid on concrete ... ... ... ... ... | 8 9 | 9 11 | 12 0 | 13 2 |

*Add to above for :*

| | | |
|---|---|---|
| Narrow widths or small quantities—add 25 per cent to plain surfaces. | | |
| Surface hardening with three coats of silicate of soda ... ... ... ... ... ... ... ... | Yd. sup. | s. d. 1 5 |
| Carborundum finish with 2 lb. per yd. sup. trowelled in ... ... ... ... ... ... ... ... | „ | 3 0 |
| ¾ in. skirting 5 in. high covered at bottom and fair top edge ... ... ... ... ... ... ... | Ft. run | 2 9 |
| Mitres and ends—7d. each. | | |
| Composition flooring ½ in. thick ... ... ... | Yd. sup. | 18 0 |
| Terrazzo paving ⅜ in. thick ... ... ... ... | „ | 45 0 |
| Rubber flooring ¼ in. thick ... ... ... ... | „ | 65 0 |

## ASPHALTER

| | | *Mastic BSS 988* | *Natural rock BSS 1162* |
|---|---|---|---|
| *Asphalt roofing .* | | s. d. | s. d. |
| ¾ in. flat to falls in two thicknesses on felt underlay on prepared screed ... ... | Yd. sup. | 14 3 | 20 0 |
| do. in small quantities or narrow widths | Ft. sup. | 2 0 | 2 9 |
| 6 in. high skirting with angle fillet and splayed edge at top ... ... ... ... | Ft. run | 2 7 | 3 0 |
| External angles on do. ... ... ... | No. | 7 | 7 |
| Internal angles on do. ... ... ... | „ | 7 | 7 |

| | | *Mastic BSS 1097* | *Natural rock BSS 1418* |
|---|---|---|---|
| *Asphalt Damp-proof Course and Tanking :* | | s. d. | s. d. |
| Vertical damp-proof course in 2 thicknesses | Yd. sup. | 21 0 | 27 0 |
| do. in narrow widths ... ... | Ft. sup. | 2 6 | 3 4 |
| ¾ in. Horizontal damp-proof course in two thicknesses ... ... ... ... ... | Yd. sup. | 14 4 | 19 9 |
| do. in narrow widths ... ... | Ft. sup. | 1 10 | 2 6 |
| Vertical tanking in three thicknesses ... | Yd. sup. | 25 0 | 31 4 |
| 1½ in. Horizontal do. in three thicknesses | „ | 19 3 | 29 2 |
| Labour double angle fillet ... ... ... | Ft. run | 1 4 | 1 4 |

## DRAINLAYER

| | Per yd. run Depth of trench | | | | |
|---|---|---|---|---|---|
| | 2 ft. | 3 ft. | 4 ft. | 5 ft. | 10 ft. |
| | s. d. | s. d. | s. d. | s. d. | s. d. |
| Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rates) ... ... | 3 3 | 21 7 | 28 10 | 36 0 | 106 3 |

| | Per yd. run | | |
|---|---|---|---|
| | 4 in. | 6 in. | 9 in. |
| | s. d. | s. d. | s. d. |
| Concrete (1: 6–1½ in agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides ... ... ... | 8 0 | 8 10 | 11 3 |
| do. but 6 in. bed and do. ... ... | 9 7 | 11 3 | 13 7 |
| do. but 4 in. bed and surround to pipe | 11 7 | 14 5 | 19 0 |
| do. but 6 in. bed and surround to pipe | 15 7 | 18 10 | 23 9 |
| | Per ft. run | | |
| *Salt glazed drain pipes* laid and jointed in trench (Minimum two-ton loads): | 4 in. | 6 in. | 9 in. |
| | s. d. | s. d. | s. d. |
| 'Seconds' ... ... ... ... ... | 2 8½ | 3 10 | 6 1 |
| 'Best' ... ... ... ... ... ... | 2 11 | 4 2½ | 6 9½ |
| 'Best Tested' ... ... ... ... ... | 3 7¼ | 5 1¾ | 8 7 |
| 'British Standard' ... ... ... | 3 1¼ | 4 5½ | 7 3½ |
| 'British Standard Tested' ... ... ... | 3 8¾ | 5 5 | 8 11 |
| Extra for bends 'Best' quality ... ... ... | 4 0 | 5 10 | 16 11 |
| Extra for junctions 'Best' quality ... ... | 7 0 | 9 11 | 21 4 |
| *Cast-iron drain pipes* to BSS 437 laid and jointed with molten lead in trench ... ... ... | 15 3 | 22 6 | — |
| Extra for: | | | |
| Short lengths ... ... ... ... ... | 4 0 | 5 1 | — |
| Bends and extra joints ... ... ... ... | 22 6 | 59 0 | — |
| Junctions and do. ... ... ... ... | 46 3 | 102 8 | — |
| Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint ... ... ... ... ... | 45 2 | — | — |
| Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ... | 70 3 | — | — |
| Cast-iron inspection fittings with single branch fitting one side ... ... ... ... | 164 0 | — | — |

| | Per ft. run | | |
|---|---|---|---|
| | 3 in. | 4 in. | 6 in. |
| | s. d. | s. d. | s. d. |
| Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250) | 2 6 | 3 3 | 6 2 |

| | | 4 in. | 6 in. |
|---|---|---|---|
| *Manhole items:* | | s. d. | s. d. |
| Brown glazed stoneware straight half-round channels ... ... ... ... | Each | 5 4 | 7 8 |
| do. ordinary channel bends ... ... | ,, | 11 10 | 16 11 |
| Three-quarter section curved channel bends with splayed ends ... ... | ,, | 15 0 | 21 6 |
| Cast-iron heavy galvanised steps ... ... ... ... | Each | | 13 0 |
| Bedding and sealing medium weight manhole covers and frames (cost of cover to add) ... ... ... | ,, | | 10 0 |
| do. heavy road covers and frames ... ... ... | ,, | | 13 3 |

## MASON

| | | Per ft. cube | | |
|---|---|---|---|---|
| | | Bath | Portland | York |
| *Stone and all labours fixed in:* | | s. d. | s. d. | s. d. |
| Ashlar average 6¾ in. on bed ... | Ft. sup. | 32 8 | 37 5 | 39 0 |
| Moulded string course 9 in. x 6 in. | Ft. run | 28 4 | 31 0 | 33 10 |
| Moulded cornice 18 in. x 9 in. ... | ,, | 71 6 | 77 6 | 82 6 |
| Weathered and throated cills: | | | | |
| 9 in. x 3 in. ... ... ... ... | ,, | 17 10 | 19 3 | 20 7 |
| 12 in. x 6 in. ... ... ... ... | ,, | 35 9 | 38 0 | 40 2 |
| Weathered and throated copings: | | | | |
| 12 in. x 3 in. ... ... ... ... | ,, | 19 3 | 21 0 | 21 9 |
| 14 in. x 6 in. ... ... ... ... | ,, | 38 0 | 43 0 | 44 6 |
| Plinth rubbed top and face size: | | | | |
| 4½ in. x 9 in. ... ... ... ... | ,, | 19 6 | 21 9 | 21 0 |
| Plain steps, size 12 in. x 6 in. ... | ,, | — | — | 35 9 |
| ,, ,, ,, 14 in. x 2 in. ... | ,, | — | — | 16 9 |
| Riser, size 2 in. x 4 in. ... | ,, | — | — | 8 0 |
| 2 in. Sawn paving edges squared in random sizes ... ... ... ... | Yd. sup. | — | — | 98 0 |
| *Supplied only:* | | | | |
| Templates and cover stones coped edges ... ... ... ... ... | Ft. cube | — | — | 33 6 |

## ROOFER

| | Yd. sup. |
|---|---|
| | s. d. |
| Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS 747, covered with limestone or granite chippings n.e. ¼ in. thick ... ... | 10 0 |
| All as above but in three layers, the first and second layers in felt 45 lb. ... ... ... ... ... ... ... ... | 13 9 |

| | Steel Tees at | |
|---|---|---|
| | 2 ft. 0½ in. centres | 4 ft. 0½ in. centres |
| 2 in. compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking: | s. d. | s. d. |
| Areas of 50–100 yds. sup. ... ... ... | 27 8 | 21 4 |
| ,, 101–250 ,, ... ... ... | 26 10 | 20 9 |
| ,, 251–750 ,, ... ... ... | 26 0 | 20 3 |
| ,, Over 750 ,, ... ... ... | 25 2 | 19 4 |
| If 16G steel tees are used—Add to above ... | 1 5½ | 9 |

| Welsh Slating | | Per square | | |
|---|---|---|---|---|
| | | 16in.x8in. | 18in.x10in. | 20in.x10in. |
| | | s. d. | s. d. | s. d. |
| Laid with 3 in. lap and 2 zinc nails each slate ... ... ... | | 380 0 | 408 0 | 499 0 |
| *Additional labours:* | | | | |
| Top edge cutting ... | Ft. run | 9 | 9 | 9 |
| Square abutment do. | ,, | 9 | 9 | 9 |
| Double course at eaves... | ,, | 1 3 | 1 3 | 1 3 |
| Raking, cutting and waste | ,, | 11 | 11 | 11 |
| 1½ in. x ¾ in. slate battening for last ... ... ... | Per sq. | 36 9 | 33 0 | 29 3 |

| Roof Tiling | | Per square | | |
|---|---|---|---|---|
| | | Berkshire hand-made | Stafford machine made | Concrete Tiles |
| | | s. d. | s. d. | s. d. |
| Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails ... ... ... | | 264 0 | 253 0 | 163 3 |
| 1 in. x ¾ in. tile battening for last ... ... | | 39 6 | 39 6 | 39 6 |
| *Additional labours:* | | | | |
| Top edge cutting ... ... | Ft. run | 9 | 9 | 9 |
| Square abutments do. ... | ,, | 9 | 9 | 9 |
| Raking cutting to hips ... | ,, | 11 | 11 | 11 |
| Eaves course ... ... ... | ,, | 11 | 11 | 11 |
| Half-round ridge and hip tiles | ,, | 2 11 | 2 11 | 2 11 |

## CARPENTER AND JOINER

| | Ft. cube | | | |
|---|---|---|---|---|
| | Plates | Joists | Rafters & Partitions | Roof trusses |
| | s. d. | s. d. | s. d. | s. d. |
| Softwood carcassing, including all waste, nails, hoisting and fixing | 17 1 | 19 10 | 22 10 | 27 4 |

| | Per square | | |
|---|---|---|---|
| | ¾ in. | 1 in. | 1¼ in. |
| *Boarding and Flooring:* (Softwood): | s. d. | s. d. | s. d. |
| Rough boarding to flats and roof ... | 125 0 | 160 0 | 194 9 |
| Softwood plain edge flooring cleaned off | 155 0 | 173 6 | 211 0 |
| Tongued and grooved flooring cleaned off | 169 0 | 195 4 | 237 0 |

| | | s. d. |
|---|---|---|
| Extra for 2 in. x 3 in. average firrings ... ... ... | Per sq. | 81 7 |
| Herringbone strutting to 2 in. x 8 in. joists ... ... | Ft. run | 1 10 |
| 1 in. gutter boarding and bearers ... ... ... | Ft. sup. | 3 9 |
| Raking cutting and waste on 1 in. flooring ... ... | Ft. run | 9 |
| *Composition Boards, etc.:* | | |
| ⅛ in. hardboard to BS 1142 fixed to vertical battens | Yd. sup. | 6 9 |
| ½ in. insulation board to BS 1142 do. do. | ,, | 6 11 |
| 1 in. woodwool slabs fixed to flat or sloping soffits | ,, | 9 7 |
| 2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super | ,, | 14 8 |
| ¼ in. flat asbestos sheeting fixed vertically .. ... | ,, | 11 0 |

*Wood Block Flooring:*

| | | s. d. |
|---|---|---|
| 1 in. nominal West African mahogany flooring laid herringbone pattern in mastic ... ... ... | Yd. sup. | 34 6 |
| 1 in. do. Agba ... ... ... ... ... ... | ,, | 34 6 |
| 1 in. do. Sapele ... ... ... ... ... ... | ,, | 36 3 |
| 1 in. do. Beech ... ... ... ... ... ... | ,, | 39 0 |
| 1 in. do. Rhodesian Teak ... ... ... ... | ,, | 52 0 |

Extra for preparing and polishing 2/3 yd. sup.

| | Sectional area 1 | | |
|---|---|---|---|
| | n.e. 4 in. | 4–6 in. | ex. 6 in. |
| *Skirtings:* | s. d. | s. d. | s. d. |
| Softwood skirting with rounded or moulded edge, planted on including all labours in short lengths, mitres, etc., per in. in sectional area ... ... ... | 3¾ | 3¼ | 2¾ |

Labours over 6 in.—Mitres = 1 ft. run. Return mould ends = 1 ft. 6 in. run
Sawn grounds nailed 3¼d. ft. run. If plugged + 7d. ft. run.

| | Ft. super | |
|---|---|---|
| | Large sqrs. | Small sqrs. |
| *Sashes and Frames:* (Softwood): | s. d. | s. d. |
| 1½ in. rebated, rounded or moulded fixed ... ... | 3 7 | 5 9 |
| 2 in. ,, ,, ,, ,, ... ... | 4 0 | 6 2 |
| Add for hanging on butts ... ... ... ... each | 2 9 | 2 9 |
| Double-hung sashes and frames with oak cills, purpose-made and not less than 1 doz. in each order: Quantities under 1 doz.—add up to ½ according to quantity. (Average size 4 ft. x 5 ft.) ... ... | 10 8 | 14 6 |

Extra cost of boxed mullions 1s. ft. sup.
Extra for hanging sashes with lines, weights and axle pulleys 47s. each.

| | Ft. super | | | |
|---|---|---|---|---|
| | 1¼ in. | 1½ in. | 1¾ in. | 2 in. |
| *Doors:* (All-purpose-made) (Softwood) | s. d. | s. d. | s. d. | s. d. |
| Softwood skeleton framed with hardboard flush both sides (standard internal pattern) ... ... ... | 3 7 | 4 0 | 4 5 | 4 10 |
| Framed, ledged and braced ... ... | — | 5 1 | 6 2 | 6 4 |
| Four panel square framed both sides | 4 10 | 5 7 | 6 7 | 6 10 |
| Add for each side moulded on last... | 6 | 6 | 6 | 6 |
| do. flush framed ... ... ... | 1 0 | 1 1 | 1 3 | 1 3 |
| do. bead and butt do. | 1 3 | 1 4 | 1 6 | 1 6 |
| do. bolection moulded do. | 1 6 | 1 6 | 1 6 | 1 6 |
| do. raised and fielded do. | — | 2 4 | 2 4 | 2 4 |

Rebated and beaded meeting stile 4d. ft. run.
Dwarf doors add up to 50 per cent according to size.

| | Sectional area | | |
|---|---|---|---|
| | n.e. 6in. | 6-12 in. | ex. 12in. |
| *Window and Door Linings and Frames:* | s. d. | s. d. | s. d. |
| Softwood linings per inch of sectional area | 4½ | 4 | 3½ |
| Add for cross-tongueing ... ... ... | — | 1 | ¾ |
| Frames, including rebating and once moulded or equivalent of two run labours, per sectional inch ... ... ... | 4 | 3½ | 3 |

Transomes and cills plus 10 per cent on frames.
Additional run labours plus 1½d. per ft. run.

| | Per ft. run | | | |
|---|---|---|---|---|
| | Sectional area | | | |
| | 1 in. | 2 in. | 4 in. | 6 in. |
| *Softwood Bearers, Fillets and Mouldings, etc.:* | s. d. | s. d. | s. d. | s. d. |
| Wrot grounds, bearers, fillets, etc. | 4½ | 7 | 11 | 1 3 |
| Mouldings, picture rails, architraves, etc. ... ... ... ... | 5 | 7½ | 11½ | 1 4 |
| Framed legs and bearers or similar | 9 | 11 | 1 4 | 1 10 |
| Glazing beads, mitred and bradded | 6 | 8½ | — | — |
| Add for plugging ... ... ... | 6 | 6 | 6 | 6 |
| Add for brass cups and screws ... | 2½ | 2½ | 2½ | 2½ |

| | Thickness | | | |
|---|---|---|---|---|
| | ¾ in. | 1 in. | 1¼ in. | 1½ in. |
| *Shelving (Softwood):* | s. d. | s. d. | s. d. | s. d. |
| Slat shelving 2 in. wide spaced 1 in. between ... ... ... Ft. sup. | 2 0 | 2 3 | 2 8 | 3 1 |
| 9 in. shelving ... ... Ft. run | 2 0 | 2 4 | 2 10 | 3 6 |
| Shelving over 9 in. wide ... Ft. sup. | 2 7 | 2 11 | 3 7 | 4 2 |

1 in. x 2 in. chamfered bearers in short lengths, plugged, each 2s. 3d.

| | Ft. super | |
|---|---|---|
| | 1 in. treads | 1¼ in. treads |
| *Staircases (Softwood):* | s. d. | s. d. |
| Treads and risers with moulded nosings, glued, blocked and bracketed on carriages ... ... ... | 6 3 | 7 0 |
| Cross-tongued winders ... ... ... ... ... | 8 3 | 9 4 |

| | | s. d. |
|---|---|---|
| Strings, framed ... ... ... ... ... ... ... | Ft. run | 4 9 |
| Housings for treads and risers ... ... ... ... | Each | 3 0 |
| 1 in. x 1 in. sq. balusters framed each end on rake ... | ,, | 4 1 |
| 3½ in. x 3½ in. sq. framed newel ... ... ... ... | ,, | 5 2 |
| Mahogany handrail, average 3 in. x 3 in. ... ... | Ft. run | 8 10 |
| ,, ,, ramped ... ... ... ... ... | ,, | 26 0 |

## FIXING ONLY IRONMONGERY

| *All to Softwood:* | Each s. d. | | Each s. d. |
|---|---|---|---|
| Barrel bolts ... ... | 1 9 | Rim locks ... ... ... | 5 2 |
| Flush bolts ... ... ... | 6 3 | Mortice locks ... ... | 11 0 |
| Sash fasteners ... ... | 3 4 | Overhead door springs... | 14 6 |
| Casement fasteners ... | 2 3 | Patent floor springs and oil ... ... ... | 36 3 |
| Cupboard locks ... ... | 5 0 | | |

## FOUNDER AND SMITH

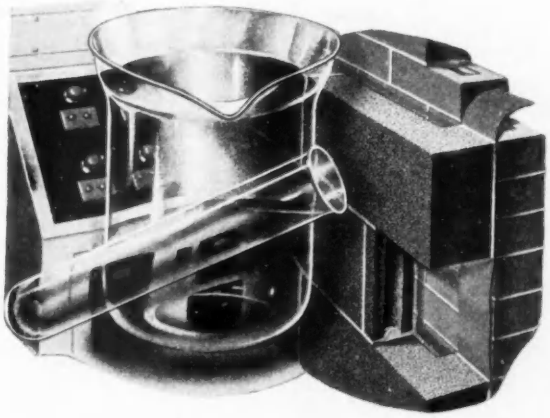
Fabricated steelwork of basis section including hoisting and fixing at various levels:

| | | s. d. |
|---|---|---|
| Rolled steel joists ... ... ... ... ... ... | per cwt. | 90 0 |
| Compound girders ... ... ... ... ... ... | ,, | 97 0 |
| Stanchions ... ... ... ... ... ... ... | ,, | 102 3 |
| Compound stanchions ... ... ... ... ... | ,, | 108 0 |
| In roof work—trusses and purlins ... ... ... (Average prices, not for awkward work) | ,, | 122 0 |
| Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts ... ... ... | ,, | 147 6 |
| Wrot iron framed cat ladders ... ... ... ... | ,, | 148 0 to 168 0 |

## PLUMBER

| | | Per ft. run | | |
|---|---|---|---|---|
| | | 3 in. | 4 in. | 5 in. |
| *Cast iron rainwater goods:* (Under 5 cwt. lots): | | s. d. | s. d. | s. d. |
| Half-round gutter jointed in red lead and bolted and fixed with iron brackets ... ... ... ... ... | | 3 2 | 3 9 | 4 7 |
| Extra for stop ends ... ... ... | each | 2 5 | 3 0 | 3 11 |
| do. angles or outlets ... ... | ,, | 5 10 | 6 2 | 7 3 |
| O.G. gutter of ⅛ in. metal fixed as above | | 3 8 | 4 2 | 4 11 |
| Extra for stop ends ... ... ... | each | 2 9 | 3 4 | 4 4 |
| do. angles or outlets ... ... | ,, | 6 7 | 6 9 | 8 1 |
| | | 2 in. | 3 in. | 4 in. |
| Rainwater pipe jointed in red lead and tow fixed to brickwork with pipe nails and distance pieces: ⅛ in. metal | | 4 3 | 4 10 | 6 3 |
| Extra for shoes ... ... ... ... | each | 5 0 | 6 10 | 9 2 |
| do. bends ... ... ... ... | ,, | 5 9 | 8 1 | 10 4 |
| do. junctions ... ... ... | ,, | 7 9 | 11 0 | 14 1 |
| *Cast iron soil and waste pipes:* (Under 5 cwt. lots): | | 2 in. | 3 in. | 4 in. |
| Soil, waste or ventilating pipes with caulked joints fixed to brickwork with pipe nails and distance pieces: 13/64 in. metal ... ... ... ... | | 6 2 | 7 3 | 9 6 |
| Extra for bends ... ... ... ... | each | 13 7 | 16 2 | 20 2 |
| do. junctions ... ... ... | ,, | 16 10 | 23 3 | 29 2 |
| do. oval access door to any fitting | ,, | 16 6 | 16 6 | 21 3 |
| Extra cost for type 'E' holderbat fixing and cutting and pinning to brickwork | ft. run | 1 6 | 1 7 | 1 7½ |

# Everything



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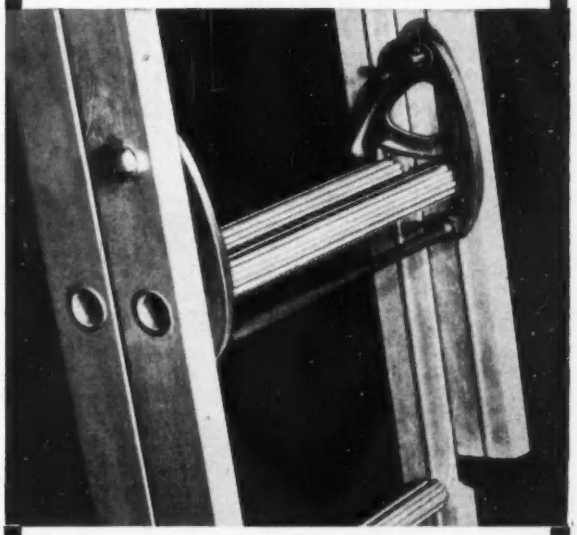

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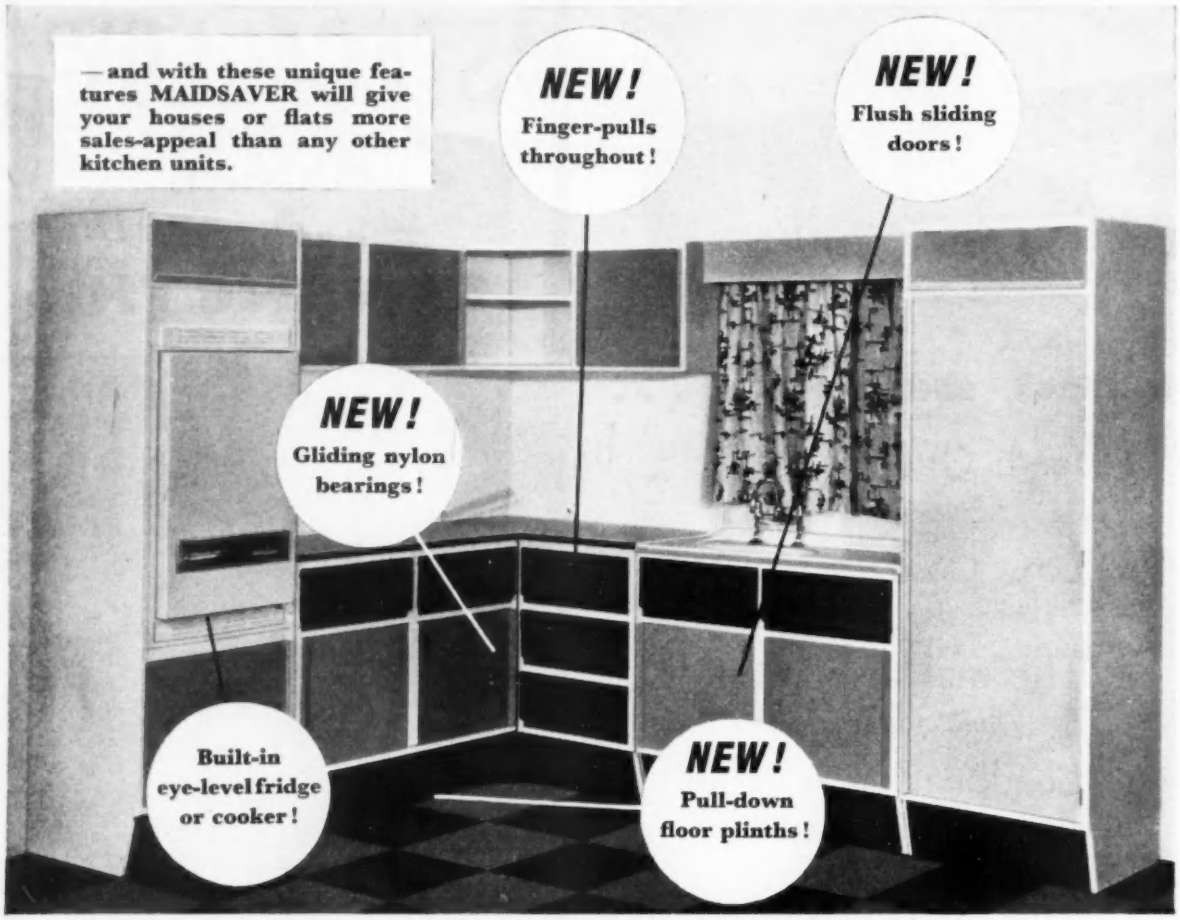


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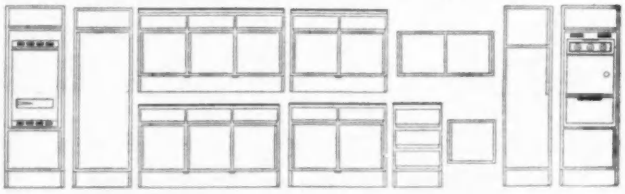

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| | Soakers | Flats | Gutters, valleys, etc. | Flashings | Stepped Flashings |
|---|---|---|---|---|---|
| | s. d. | s. d. | s. d. | s. d. | s. d. |
| *External leadwork:* (Over 1 ton): Milled lead and labour in per cwt. ... ... ... | 141 4 | 166 11 | 179 11 | 186 5 | 199 5 |

| | | |
|---|---|---|
| Labours, etc.: Double welt ... ... ... ... ... | ft. run | 1 0 |
| Copper nailing: Open ... ... ... | ,, | 7 |
| Close ... ... ... | ,, | 1 0 |
| Soldered seam ... ... ... ... | ,, | 6 7 |

| | | 2 in. x 10 lb. | 3 in. x 15 lb. | 4 in. x 19 lb. |
|---|---|---|---|---|
| *Lead pipes:* (Over 1 ton): | | s. d. | s. d. | s. d. |
| Soil, waste and ventilating pipes, fixed to walls with plain lead tacks and brass screws ... ... ... | per ft. | 10 11 | 14 4 | 18 9 |
| Extra for: Lengths under 4 ft. ... | ,, | 3 0 | 3 6 | 4 6 |
| Bends ... ... ... ... | No. | 12 6 | 23 9 | 24 10 |
| Wiped soldered joints ... ... | ,, | 20 0 | 29 7 | 33 7 |
| ,, branch joints ... ... ... | ,, | 24 4 | 35 0 | 39 3 |

| | Per ft. run | | | | | |
|---|---|---|---|---|---|---|
| | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
| *Lead pipes including running joints:* | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. |
| Main in trench ... | 3 4 | 5 0 | 7 5 | 9 3 | 11 9 | 16 5 |
| do. fixed with hooks ... ... | 4 0 | 5 10 | 8 8 | 10 8 | 13 4 | 18 3 |
| Service and do. ... | 3 5 | 5 0 | 6 11 | 8 3 | 10 4 | 13 4 |
| Waste and do. ... | 2 8 | 3 11 | 5 7 | 6 7 | 8 4 | 10 11 |
| Extra for lengths under 4 ft. ... | 9 | 1 0 | 1 6 | 1 9 | 2 0 | 2 7 |
| Soldered stop ends ... ... No. | 2 6 | 3 0 | 3 9 | 4 6 | 5 2 | 6 8 |
| do. joints to fittings ... ,, | 6 6 | 9 2 | 11 0 | 13 4 | 16 3 | 19 9 |
| do. branch joints... ... ,, | 7 2 | 10 1 | 12 2 | 14 10 | 17 11 | 21 8 |
| *Brasswork:* | | | | | | |
| Union with red lead joint to iron and soldered joint to lead ... ... ,, | 12 0 | 14 10 | 18 6 | 22 9 | 27 10 | 40 6 |
| Stop-cock and soldered joints... ... ,, | 21 0 | 30 8 | 43 7 | 70 0 | 89 6 | 167 5 |
| Bib-cock do. ,, | 18 6 | 24 9 | — | — | — | — |
| Ball-valve do. ,, | 18 0 | 30 4 | 43 5 | 71 7 | 89 6 | — |
| *Steel tubing:* | | | | | | |
| Galvanised tubing Class C laid in trench ... ... | 2 4 | 2 6 | 2 10 | 4 1 | 5 6 | 6 6 |
| do. Class B fixed to walls, etc. ... | 2 7 | 3 0 | 3 4 | 4 5 | 6 2 | 7 1 |
| Extra for bends No. | 5 0 | 5 9 | 7 7 | 9 10 | 11 8 | 17 2 |
| Tees ,, | 5 8 | 6 9 | 8 2 | 10 10 | 12 10 | 18 8 |
| Red lead joints ,, | 3 6 | 3 9 | 4 1 | 4 7 | 5 1 | 5 7 |
| *Copper tubes and fittings:* gauge | 19 | 19 | 18 | 18 | 18 | 17 |
| Tubes and fixing to walls ... ... | 2 7 | 3 4 | 4 6 | 5 5 | 6 4 | 9 2 |
| Extra for lengths under 4 ft. ... | 7 | 9 | 11 | 1 0 | 1 3 | 1 6 |
| *Brass capillary type fittings:* | | | | | | |
| Couplings—copper to copper ... | 3 8 | 4 4 | 6 9 | 8 9 | 11 2 | 15 3 |
| Bends— do. ... | 5 10 | 7 1 | 8 11 | 11 7 | 17 2 | 32 3 |
| Tees— do. ... | 8 7 | 9 11 | 14 2 | 19 2 | 26 3 | 36 4 |
| Stop cocks ... ... | 23 7 | 33 1 | 60 2 | 101 2 | 152 3 | 250 4 |
| Tank connectors ... | 4 9 | 5 4 | 8 1 | 10 2 | 14 3 | 18 4 |

## PLASTERER

| | | s. d. |
|---|---|---|
| Expanded metal lathing ⅜ in. mesh 24 gauge ... ... (not including hangers for suspended work) | Yd. sup. | 8 6 |
| Lime Plastering: Render, float and set ... ... ... | ,, | 9 11 |
| Sirapite Plastering: Render in Portland Cement, Lime and Sand and set in Sirapite ... ... ... ... | ,, | 7 9 |
| Sirapite Plastering: Render and set in Sirapite plaster to manufacturer's instructions ... ... ... ... | ,, | 8 0 |
| Paristone Plastering: do. do. ... ... ... ... | ,, | 8 3 |
| Carlite Plastering do. do. ... ... ... ... | ,, | 8 10 |
| Portland Cement: Plain face trowelled smooth ... | ,, | 9 11 |
| Keenes: Render in cement and lime and set in Keenes | Yd. sup. | 10 6 |
| Extra for dubbing out ¼ in. thick 1/11, ½ in. thick 3/11 | | |
| ⅜ in. Plasterboard and setting coat ... | ,, | 8 11 |
| Narrow widths: Up to 3 in. wide add 300 per cent. Do. 3-6 in. do. 200 per cent. Do. 6-12 in., add 75 per cent. | | |
| Labours: Arris 5½d. Fair edge 6½d. Quirk 10d. | | |
| Plaster Moulded Cornices: 6 in. girth and under ... | Ft. run | 3 1 |
| Over 6 in. girth, add 3½d. per in. | | |
| Tyrolean Rendering on and including Portland Cement and Sand backing ... ... ... ... ... ... ... | yd. sup. | 12 8 |
| Wall Tiling: 6 in. x 6 in. white glazed ¼ in. thick ... | ,, | 45 0 |
| Extra for rounded angle or birdsbeak ... ... | Ft. run | 4 |
| do. rounded edge tile ... ... ... ... ... | ,, | 5 |

## GLAZIER

| | Wood sashes with beads or putty |
|---|---|
| | s. d. |
| Clear sheet glass ordinary quality: | |
| 18 oz. ... ... ... ... ... ... ... ... | 1 5 |
| 24 oz. ... ... ... ... ... ... ... ... | 1 7½ |
| 26 oz. ... ... ... ... ... ... ... ... | 1 10½ |
| 32 oz. ... ... ... ... ... ... ... ... | 2 3½ |
| Obscured glass: | |
| ⅛ in. Figured rolled White group 1 ... ... ... | 1 10½ |
| ,, ,, ,, group 2 ... ... ... | 2 2½ |
| ,, ,, Standard tints ... ... ... | 2 6½ |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and luminating group 3 ... ... ... ... ... | 2 4 |
| ¼ in. Wired Cast ... ... ... ... ... ... | 2 7½ |
| ¼ in. Georgian Wired Cast ... ... ... ... ... | 2 8 |
| ¼ in. Polished Plate Glass, G.G. Quality: | |
| In plates not exceeding 2 ft. sup. ... ... ... | 6 8½ |
| ,, ,, ,, 5 ft. sup. ... ... ... | 7 8½ |
| ,, ,, ,, 45 ft. sup. ... ... ... | 9 8½ |
| ,, ,, ,, 100 ft. sup. ... ... ... | 9 7½ |
| Extra on all above: | |
| For glazing with screw beads ft. sup. ... ... ... | 5½ |
| (Excepting polished plate over 12 ft. super on which no extra is charged) | |
| For glazing with metal sashes with putty ... ... | 1 |
| Glazing bedded in washleather ... ... ... Ft. run | 8½ |

## PAINTER

| | | s. d. |
|---|---|---|
| Limewhiting: Prepare and two coats on brick ... | Yd. sup. | 1 2 |
| Whitening: Prepare and two coats on plaster ... | ,, | 1 5 |
| Washable distemper: Prepare and two coats on plaster | ,, | 1 11 |
| Emulsion paints: Prepare and two coats on plaster ... | ,, | 3 1 |

| *Painting with oil colours:* | Yd. super 1 coat | 2 coats | 3 coats |
|---|---|---|---|
| | s. d. | s. d. | s. d. |
| Prepare and paint on plaster ... ... ... | 2 3 | 4 3 | 6 4 |
| On Steel: | | | |
| Plain surfaces ... ... ... ... ... | 1 10 | 3 7 | 5 5 |
| Roof trusses... ... ... ... ... | 2 4 | 4 7 | 6 11 |
| Metal casements divided into squares ... | 3 4 | 6 8 | 10 0 |
| do. divided into large squares ... | 2 7 | 5 0 | 7 6 |
| Opening edges ... ... ... Each | 8 | 1 3 | 1 10 |
| Small pipe ... ... ... ... Yd. run | 6 | 1 0 | 1 5 |
| Rainwater pipe ... ... ... ,, | 1 0 | 1 11 | 2 9 |
| Gutter ... ... ... ... ,, | 1 4 | 2 6 | 3 8 |

| | Knot prime and stop | Add for each extra coat |
|---|---|---|
| On Woodwork: | s. d. | s. d. |
| General surfaces ... ... ... ... Yd. sup. | 2 10 | 2 3 |
| On work not exceeding 3 in. girth ... Yd. run | 4½ | 3½ |
| Add to last for every additional 3 in. in girth ... ... ... ... ... | 3½ | 2½ |
| Sash squares on one side ... ... Doz. | 5 6 | 4 6 |
| Large ,, ,, ,, ... ... ,, | 8 6 | 8 0 |
| Opening edges ... ... ... ... No. | 9 | 8 |

| | | s. d. |
|---|---|---|
| Oiling Hardwood: Two coats with linseed oil... ... | Yd. sup. | 1 4 |
| Creosote: Two coats on woodwork ... ... ... | ,, | 1 7 |
| *Polishing*—New Work: | | |
| Staining and wax polishing hardwood ... ... | Ft. sup. | 1 1 |
| Staining, bodying in and full french polishing on hardwood ... ... ... ... ... ... ... | ,, | 2 6 |
| Old Work previously polished: | | |
| Preparing old work and repolishing ... ... | ,, | 1 2 |
| Stripping, preparing and repolishing ... ... | ,, | 3 1 |
| *Papering:* | | |
| Preparing, sizing and hanging lining paper ... ... | per piece | 10 7 |
| do. do. Wallpaper, p.c. 10s. ... ... ... | ,, | 19 8 |

THE MOST POPULAR
BECAUSE IT'S THE BEST

ATLAS

3" STANDARD
ASBESTOS
CEMENT

CORRUGATED
SHEETING

NOW BEING MANUFACTURED BY THE VERY
LATEST METHODS

BARBOUR INDEX FILE NO. 108

THE Atlas Asbestos
CEMENT COMPANY LIMITED

*A Subsidiary of The Atlas Stone Co. Ltd*

ARTILLERY HOUSE · ARTILLERY ROW · LONDON · S·W·1

**Phone: ABBey 3081 · Grams: "Atlastonco, Sowest"**

Works at: MELDRETH, Near Royston, Herts.

Also at: GREENHITHE · STROOD · CAMBRIDGE · SHORNE
RYE (Sussex) · GT. YARMOUTH

# THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

## AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

| | | £ | s. | d. |
|---|---|---|---|---|
| Pit Ballast | per yd. | 1 | 5 | 5 |
| Pit Sand | ,, | 1 | 3 | 8 |
| Washed Sand | ,, | 1 | 6 | 9 |
| ⅜ in. Shingle | ,, | 1 | 4 | 3 |
| ⅜ in. Broken Brick | ,, | 1 | 0 | 9 |
| Pan Breeze | ,, | 1 | 1 | 6 |
| Fine or Coarse Foamed Slag Aggregate | per ton | 3 | 8 | 0 |

2 yds. of fine and 2.6 yds. of coarse per ton.

## CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

| | | £ | s. | d. |
|---|---|---|---|---|
| 6-ton loads and upwards, site | per ton | 5 | 15 | 3 |
| 1 to 6 tons, site | ,, | 6 | 7 | 3 |
| Rapid-Hardening Cement in 6-ton loads and upwards to site | ,, | 6 | 5 | 9 |
| 1 to 6 tons do. site | ,, | 6 | 17 | 9 |

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

| | | | | |
|---|---|---|---|---|
| Red, Buff or Khaki Colorcrete in 6-ton lots | ,, | 8 | 15 | 3 |

Other colours according to colour.

In 4-ton lots from 313s. 3d. to 711s. 3d. per ton.

| | | | | |
|---|---|---|---|---|
| White Portland Cement | ,, | 14 | 0 | 9 |
| Under 1 ton | per cwt. | | 17 | 1 |
| 417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards | per ton | 7 | 7 | 9 |

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 13s.3d. to £14 8s.3d. (1-ton loads and upwards).

| | | | | |
|---|---|---|---|---|
| Ciment Fondu and Lightning Brands High Aluminous cement, 6-ton lots and up | ,, | 15 | 14 | 6 |
| Stourbridge Fireclay, 6-ton loads at Railway Depot, London | ,, | 6 | 13 | 0 |
| Stourbridge Fireclay, 6-ton loads (London sites) | ,, | 7 | 12 | 0 |
| Moler Mortar Powder for Flue Bricks (London sites) | per cwt. | 1 | 6 | 0 |

## BRICKS

| Full Loads | | £ | s. | d. |
|---|---|---|---|---|
| First Hard Stocks | per 1,000 | 16 | 19 | 6 |
| Second Hard Stocks | ,, | 14 | 18 | 6 |
| Mild Stocks (Kiln Burnt) | ,, | 11 | 5 | 0 |
| Mild Stocks | ,, | 11 | 0 | 0 |

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district :

| | | | | |
|---|---|---|---|---|
| Commons | ,, | 6 | 12 | 0 |
| Cellular Commons | ,, | 6 | 12 | 0 |
| Keyed do. | ,, | 6 | 14 | 0 |
| Rustics | ,, | 8 | 12 | 0 |
| Cellular Rustics | ,, | 8 | 12 | 0 |
| Single Bullnose Commons | ,, | 8 | 14 | 6 |
| Sandfaced | ,, | 9 | 12 | 0 |
| Tuscans | ,, | 10 | 7 | 0 |
| Saxons | ,, | 10 | 15 | 0 |
| Golden Buffs | ,, | 11 | 2 | 0 |
| Dapple Light Facings | ,, | 11 | 9 | 6 |
| Heather Facings | ,, | 11 | 5 | 0 |
| Best Blue Pressed Staffs (London sites) | ,, | 33 | 4 | 9 |
| do. Bullnose (London sites) | ,, | 34 | 3 | 9 |
| Blue Wire Cuts (London sites) | ,, | 29 | 9 | 6 |
| Midhurst Lime Bricks (London sites) | ,, | 11 | 13 | 0 |
| Uxbridge Whites (London sites) | ,, | 11 | 8 | 6 |
| Special Purpose Sandlime Bricks (London sites) | ,, | 9 | 2 | 0 |

Best Stourbridge Fire Bricks :

| | | | | |
|---|---|---|---|---|
| 2½ in. (London stations) | ,, | 32 | 14 | 0 |
| 2½ in. (London sites) | ,, | 33 | 2 | 9 |
| 3 in. (London stations) | per 1,000 | 39 | 4 | 6 |
| 3 in. (London sites) | ,, | 39 | 15 | 0 |
| 2½ in. Moler Flue Bricks (London sites) | ,, | 31 | 0 | 0 |
| 2½ in. Machine-made Sandfaced Red Facings (London sites) | ,, | 18 | 19 | 0 |
| 2½ in. Machine-made Multi Red Facings (London sites) | ,, | 19 | 4 | 0 |
| 2½ in. Hand-made Sandfaced Red Facings (London sites) | ,, | 20 | 17 | 6 |
| 2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites) | ,, | 20 | 17 | 6 |
| Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites) | ,, | 21 | 5 | 0 |
| Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites) | ,, | 21 | 5 | 0 |
| Rubber Bricks for gauged arches (London sites) | ,, | 52 | 5 | 0 |
| 2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites) | ,, | 16 | 15 | 0 |
| 2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites) | ,, | 18 | 2 | 6 |

Glazed Bricks (London sites), White, Ivory, Brown:

| | | | | |
|---|---|---|---|---|
| Stretchers | ,, | 64 | 0 | 0 |
| Headers | ,, | 63 | 0 | 0 |
| Quoins, Bullnose and 4½ in. Flats | ,, | 80 | 0 | 0 |
| Double Stretchers | ,, | 85 | 0 | 0 |
| Double Headers | ,, | 77 | 10 | 0 |
| One side and two ends | ,, | 87 | 0 | 0 |
| Two sides and one end | ,, | 89 | 10 | 0 |
| Splays and Squints | ,, | 83 | 0 | 0 |

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 47½% for Best quality and plus 47½% less 10% for Second quality.

## PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

HOLLOW CLAY PARTITION BLOCKS (Keyed)

Minimum lorry loads

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| *2½ in. | 140 yds. | per yd. sup. | | 4 | 7 |

BUILDING BLOCKS (Keyed)

| | | | | | |
|---|---|---|---|---|---|
| *3 in. (6 cavity) | 110 yds. | ,, | | 5 | 9 |
| *4 in. (6 cavity) | 90 yds. | ,, | | 7 | 3 |
| 6 in. (8¾ in. × 5¾ in.) | 1,250 blocks | per 1,000 | 28 | 9 | 0 |

* Half blocks at no extra charge.

CLINKER CONCRETE

| | | | | | |
|---|---|---|---|---|---|
| 2 in. | 100 yds. | per yd. sup. | | 3 | 11 |
| 2½ in. | 85 yds. | ,, | | 4 | 6 |
| 3 in. | 75 yds. | ,, | | 5 | 6 |
| 4 in. | 55 yds. | ,, | | 6 | 11 |

CRANHAM TERRA COTTA

| | | | | | |
|---|---|---|---|---|---|
| 2 in. | | ,, | | 7 | 5 |
| 2½ in. | | ,, | | 8 | 4 |
| 3 in. Load bearing quality | | ,, | | 9 | 6 |
| 4 in. do. do | | ,, | | 11 | 6 |

MOLER PARTITION BLOCKS

| | | | | | |
|---|---|---|---|---|---|
| 2 in. | 150 yds. | ,, | | 12 | 9 |
| 2½ in. | 120 yds. | ,, | | 13 | 9 |
| 3 in. | 100 yds. | ,, | | 14 | 9 |
| 4 in. | 90 yds. | ,, | | 17 | 0 |

LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE

| | | | | | |
|---|---|---|---|---|---|
| 2 in. | 100 yds. | per yd. sup. | | 5 | 4 |
| 2½ in. | 80 yds. | ,, | | 6 | 5 |
| 3 in. | 65 yds. | ,, | | 7 | 5 |
| 4 in. | 50 yds. | ,, | | 9 | 4 |
| 4½ in. | 44 yds. | ,, | | 10 | 2 |
| 6 in. | 33 yds. | ,, | | 14 | 5 |

THERMALITE-YTONG PARTITION BLOCKS

| | | | | | |
|---|---|---|---|---|---|
| 2½ in. | 144 yds. | ,, | | 7 | 0 |

THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS

| | | | | | |
|---|---|---|---|---|---|
| 3 in. | 120 yds. | per yd. sup. | | 8 | 5 |
| 4 in. | 90 yds. | ,, | | 11 | 0 |
| 5 in. | 72 yds. | ,, | | 13 | 9 |
| 6 in. | 60 yds. | ,, | | 16 | 6 |
| 8½ in. | 42 yds. | ,, | 1 | 3 | 8 |

FLOOR BLOCKS AND FILLER TILES

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads :

| | | | | | |
|---|---|---|---|---|---|
| 3 in. | | per 1,000 | 35 | 14 | 0 |
| 4 in. | | ,, | 38 | 9 | 0 |
| 5 in. | | ,, | 46 | 1 | 0 |
| 6 in. | | ,, | 52 | 12 | 0 |
| 7 in. | | ,, | 64 | 12 | 0 |
| 8 in. | | ,, | 75 | 9 | 0 |
| 9 in. | | ,, | 83 | 2 | 0 |
| 10 in. | | ,, | 92 | 0 | 0 |

Filler Tiles in multiples of 10 tiles per 1,000 multiples :

| | | | | | |
|---|---|---|---|---|---|
| 12 in. × 3 in. × ⅝ in. | | ,, | 43 | 13 | 0 |
| 12 in. × 4 in. × ⅝ in. | | ,, | 75 | 7 | 0 |
| 10 in. × 5 in. × ⅝ in. | | ,, | 75 | 7 | 0 |

Carlite is now being used at over a million square yards a month, for all kinds of plastering, everywhere! You'll find it a great help—it is pre-mixed, lightweight, very strong, with high fire ratings, and virtually no lime in the finish to delay decorating. Use Carlite to save time and do an easier job every time. If you've a plastering problem Carlite Technical Service will be pleased to help. *Write for the Carlite brochure.*

THE GOTHAM GROUP OF COMPANIES

The Gotham Company Ltd., Gotham, Nottingham.
Tel: Gotham 201.

Also at

Ferguson House, Marylebone Road, London, N.W.1.
Tel: Hunter 4259.

The Carlisle Plaster & Cement Co., Cocklakes, Nr. Carlisle.
Tel: Wetheral 345.

Thomas McGhie & Sons Ltd., Kirkby Thore, Westmorland.
Tel: Kirkby Thore 204.

## STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

| | | 4 in. | 6 in. | 9 in. |
|---|---|---|---|---|
| Pipes, 2 ft. lengths ... ... ... ... | per ft. | 1/8 | 2/6 | 4/6 |
| Bends ... ... ... ... ... ... | each | 5/- | 7/6 | 20/3 |
| Junctions ... ... ... ... ... | ,, | 8/4 | 12/6 | 27/- |
| Gullies with 4 in. outlets ... ... ... | ,, | 12/6 | 13/9 | 22/6 |

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

| | Over 2 tons | Over 100 pieces Under 2 tons | Under 100 pieces Under 2 tons |
|---|---|---|---|
| Best Quality ... | −5% | +15% | +20% |
| BSS Best Quality... | +10% − 5% | +10% + 15% | +10% + 20% |
| Tested Quality ... | +37½% − 5% | +37½% + 15% | +37½% + 20% |
| BSS Tested Quality | +47½% − 5% | +47½% + 15% | +47½% + 20% |

| | | £ | s. | d. |
|---|---|---|---|---|
| 3 in. Land Drain Pipes (in 12 in. lengths) ... ... | per 1,000 | 12 | 10 | 6 |
| 4 in. do. do. ... ... ... ... ... | ,, | 16 | 16 | 0 |
| 6 in. do. do. ... ... ... ... ... | ,, | 34 | 10 | 0 |
| 9 in. do. do. ... ... ... ... ... | ,, | 64 | 19 | 0 |

## DAMP COURSE

| | | £ | s. | d. |
|---|---|---|---|---|
| Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area ... ... ... ... | per yd. sup. | | 3 | 5 |
| Asbestos base do. 7 lb. per yd. sup. do. do. | ,, | | 5 | 2 |
| Lead lined bitumen do. 9½ lb. per yd. sup. do. do. | ,, | | 12 | 2 |
| 18 in. × 9 in. British damp course slates ... ... | per 1,000 | 43 | 8 | 11 |
| 14 in. × 9 in. do. do. ... ... | ,, | 32 | 8 | 2 |
| 9 in. × 9 in. do. do. ... ... | ,, | 18 | 18 | 9 |
| 18 in. × 4½ in. do. do. ... ... | ,, | 19 | 19 | 9 |
| 14 in. × 4½ in. do. do. ... ... | ,, | 15 | 18 | 3 |
| 9 in. × 4½ in. do. do. ... ... | ,, | 10 | 14 | 3 |

## STONE

| | | £ | s. | d. |
|---|---|---|---|---|
| Bath Stone | | | | |
| Monks Park ... ... ... ... ... ... | per ft. cube | | 10 | 3 |
| St. Aldhelm Box Ground ... ... ... ... | ,, | | 11 | 6 |
| Delivered in railway trucks at South Lambeth B.R. Western Region. | | | | |
| Doulting Stone Random Blocks. Delivered London area ... ... ... ... ... ... | ,, | | 10 | 10 |
| Beer Stone. Delivered London area ... ... | ,, | | 10 | 6 |
| Portland Stone— | | | | |
| Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region ... ... ... | ,, | | 9 | 10 |
| Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots. | | | | |
| 9 in. × 3 in. Rubbed, weathered, throated and stolled cills ... ... ... ... ... ... | per ft. cube | 4 | 5 | 10 |
| 12 in. × 6 in. do. do. do. ... ... | ,, | 3 | 1 | 2 |
| 12 in. × 3 in. Plain coping, twice throated ... ... | ,, | 2 | 7 | 6 |
| 12 in × 3 in. Weathered and twice throated coping | ,, | 3 | 3 | 3 |
| 14 in. × 6 in. do. do. do. ... ... | ,, | 2 | 17 | 0 |
| 4½ in. × 9 in. Plinth rubbed on top and face ... | ,, | 2 | 11 | 0 |
| 3 in. sawn two sides Slabs, random sizes ... ... | per ft. sup. | | 9 | 1 |
| Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ... | per ft. cube | 1 | 11 | 3 |
| do. do. fair one edge for fair faced brickwork | ,, | 1 | 17 | 0 |
| Hard York— | | | | |
| 12 in. × 2 in. Square Steps, rubbed on top and edge ... ... ... ... ... ... ... | per ft. run | | 11 | 0 |
| 14 in. × 3 in. Round-nosed Steps, rubbed on top and front ... ... ... ... ... ... | per ft. cube | 2 | 18 | 3 |
| 12 in. × 6 in. Plain Steps, rubbed top and front | ,, | 2 | 11 | 0 |
| 2 in. Rubbed and Jointed Paving, given sizes ... | per ft. sup. | | 10 | 3 |
| 2 in. Sawn Paving, edges squared, in random sizes ... ... ... ... ... ... ... | per yd. sup. | 3 | 12 | 0 |

## TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

| | £ | s. | d. |
|---|---|---|---|
| Machine-made Pantiles and French pattern Tiles from Lincolnshire district ... ... ... ... ... | 35 | 16 | 6 |
| Hand-made Pantiles Berkshire district ... ... ... ... | 64 | 10 | 0 |
| Hand-made Double Roman Bridgwater district ... ... | 78 | 2 | 9 |
| Hand-made 10½ × 6½ tiles Berkshire district ... ... ... | 18 | 0 | 0 |
| Machine-made 10½ × 6½ Staffordshire district ... ... | 17 | 0 | 0 |
| Hand-made Hip and Valley tiles per doz. ... ... ... | 1 | 13 | 0 |
| Machine-made Hip and Valley tiles do. ... ... ... | 1 | 12 | 0 |
| Concrete tiles 10½ × 6½ ... ... ... ... ... ... | 8 | 10 | 0 |
| do. Interlocking (49S) ... ... ... ... | 19 | 16 | 6 |

NOTE.—Breakage in transit, purchasers' responsibility.

## SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

| | £ | s. | d. |
|---|---|---|---|
| 24 × 12 ... ... ... ... ... ... ... ... ... ... | 155 | 10 | 0 |
| 22 × 12 ... ... ... ... ... ... ... ... ... ... | 123 | 10 | 0 |
| 22 × 11 ... ... ... ... ... ... ... ... ... ... | 111 | 10 | 0 |
| 20 × 12 ... ... ... ... ... ... ... ... ... ... | 104 | 10 | 0 |
| 20 × 10 ... ... ... ... ... ... ... ... ... ... | 102 | 0 | 0 |
| 18 × 10 ... ... ... ... ... ... ... ... ... ... | 69 | 10 | 0 |
| 18 × 9 ... ... ... ... ... ... ... ... ... ... | 61 | 0 | 0 |
| 16 × 10 ... ... ... ... ... ... ... ... ... ... | 54 | 8 | 10 |
| 16 × 8 ... ... ... ... ... ... ... ... ... ... | 42 | 12 | 4 |

NOTE.—Breakage in transit, purchasers' responsibility.

## TIMBER

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| Softwood | Ex Wharf | per standard | £115 to £140 | | |
| Joinery quality ... ... ... ... | do. | ,, | £94 — £98 | | |
| Carcassing quality ... ... ... | do. | ,, | £110 | 0 | 0 |
| 1 in. Tongued and Grooved Flooring | do. | ,, | | | |
| Hardwood | | | £ | s. | d. |
| Mahogany—African S.E. ... ... | do. | per ft. cube | 1 | 10 | 0 |
| do. Honduras S.E. ... ... | do. | ,, | 3 | 5 | 0 |
| Oak European S.E. ... ... | do. | ,, | 2 | 10 | 0 |
| do. Japanese S.E. ... ... | do. | ,, | 3 | 0 | 0 |
| do. English Logs sawn ... | do. | ,, | 2 | 0 | 0 |
| Teak 8 in. average S.E. ... | do. | ,, | 3 | 17 | 6 |
| Walnut African Logs sawn ... | do. | ,, | 1 | 2 | 6 |
| Plywood | | per | | | |
| 6 mm. (¼ in.) Birch Plywood B/BB ... ... | | 100 sq. ft. | 4 | 6 | 9 |
| 6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100) ... ... ... ... ... | | ,, | 4 | 5 | 3 |
| 18 mm. Birch Blockboard ... ... ... ... | | ,, | 9 | 9 | 6 |
| ¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WPB (AX100) solid two sides ... ... | | ,, | 9 | 6 | 9 |

## DOORS (in Lots I-II)

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| 1½ in. 4 Horizontal Panel. Pattern 4 in. deal | | | | |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | each | 1 | 16 | 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 17 | 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 18 | 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 0 | 6 |
| 2 in. do. but top panel open. Pattern 4 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 9 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 11 | 6 |
| 2 in. 2 Panel top panel open. Pattern 2 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 3 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 2 | 5 | 0 |
| 1½ in. Plywood Faced Flush Doors to BS459, Part 2A | | | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | ,, | 1 | 12 | 3 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 12 | 3 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 13 | 9 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 15 | 3 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 18 | 0 |
| 1½ in. Hardboard Faced Flush Doors | | | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | ,, | 1 | 5 | 6 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 6 | 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 6 | 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 8 | 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | ,, | 1 | 9 | 6 |

## SUNDRIES

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| 1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (67 yds. to 1 ton) ... ... | per yd. | | 6 | 2 |
| 1½ in. do. (67 yds. to 1 ton) ... ... | ,, | | 8 | 0 |
| 2 in. do. (52 yds. to 1 ton) ... ... | ,, | | 9 | 9½ |
| 2½ in. do. (45 yds. to 1 ton) ... ... | ,, | | 11 | 3 |
| 3 in. do. (39 yds. to 1 ton) ... ... | ,, | | 12 | 7½ |
| Quantities under 1 ton add 1d. per ½ in. of thickness | | | | |
| ½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft. ... ... ... ... | per 100 sq. ft. | 2 | 2 | 6 |
| ⅛ in. Hardboard do. ... ... ... ... | ,, | 1 | 17 | 6 |
| 7/16 in. do. do. ... ... ... ... | ,, | 2 | 4 | 6 |
| 2 in. Compressed Straw Slabs, roofing quality. 6 ft., 8 ft., 9 ft., 10 ft., and 12 ft. × 4 ft. | | | | |
| 50–100 yds. ... ... ... ... ... ... | per yd. sup. | | 11 | 4 |
| 101–250 yds. ... ... ... ... ... ... | ,, | | 10 | 10 |
| 251–750 yds. ... ... ... ... ... ... | ,, | | 10 | 1 |
| Over 750 yds. ... ... ... ... ... ... | ,, | | 9 | 4 |
| 2 in. do. for partitions 4d. per yd. cheaper. | | | | |
| 1/16 in. Asbestos Flat Building Sheets ... ... ... | ,, | | 4 | 3½ |
| ¼ in. do. do. do. ... ... ... | ,, | | 6 | 0 |
| Roofing Felt 1-ply ... ... ... ... ... ... | ,, | | 1 | 9 |
| do. 2-ply ... ... ... ... ... ... | ,, | | 2 | 2¼ |
| Best Scotch Glue in slabs ... ... ... ... | per ½ cwt. | 5 | 3 | 9 |
| do. pearl ... ... ... ... ... | ,, | 5 | 3 | 9 |
| Croid Glue ... ... ... ... ... ... | 28 lb. | 2 | 6 | 0 |
| Impact Adhesive ... ... ... ... ... ... | per gall. | 2 | 12 | 0 |
| Cut Nails 3 in. (1-ton lots) ... ... ... ... | per ton | 84 | 10 | 0 |
| do. 4 in. and up (1-ton lots) ... ... ... | ,, | 81 | 0 | 0 |
| Wire Nails 3 in. (4-cwt. lots) ... ... ... ... | per cwt. | 3 | 19 | 2 |
| do. 4 in. and up (4-cwt. lots) ... ... | ,, | 3 | 16 | 6 |

## METALS

STEEL JOISTS, ETC.

| Basis Joists— | | £ | s. | d. |
|---|---|---|---|---|
| 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in., plain cut to lengths delivered London area ... ... ... ... ... ... | per ton | 47 | 15 | 0 |
| Extra for sizes | | | | |
| 3 in. × 1½ in. 4 in. × 1¾ in. ... ... ... ... | ,, | 3 | 10 | 0 |
| 3 in. × 3 in. ... ... ... ... ... ... ... | ,, | 2 | 10 | 0 |
| 4 in. × 3 in. ... ... ... ... ... ... ... | ,, | 2 | 5 | 0 |
| 10 in. × 4½ in. ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| 5 in. × 2½ in. 5 in. × 3 in. ... ... ... ... | ,, | 1 | 15 | 0 |
| 4¾ in. × 1¾ in. ... ... ... ... ... ... | ,, | 3 | 5 | 0 |
| 5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ... | ,, | | 15 | 0 |
| 6 in. × 3 in. 24 in. × 7½ in. ... ... ... ... | ,, | 2 | 0 | 0 |
| 6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. ... ... ... | ,, | 1 | 5 | 0 |
| 12 in. × 5 in. 22 in. × 7 in. ... ... ... ... | ,, | 1 | 0 | 0 |

## METALS—*continued*

| | | £ | s. | d. |
|---|---|---|---|---|
| 9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 18 in. × 6 in. 18 in. × 7 in. | per ton | | 10 | 0 |
| 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. | ,, | | 10 | 0 |
| Steel angles average price ... ... ... ... | ,, | 48 | 15 | 0 |
| Steel tees average price ... ... ... ... | ,, | 49 | 15 | 0 |
| Fabricated work delivered London— | | | | |
| R.S. Joists cut and fitted... ... ... ... ... | ,, | 67 | 19 | 0 |
| Compound girders... ... ... ... ... ... | ,, | 72 | 14 | 3 |
| Stanchions ... ... ... ... ... ... ... | ,, | 78 | 9 | 9 |
| Compound stanchions ... ... ... ... ... | ,, | 83 | 4 | 3 |
| In Roof Work—Trusses and Purlins ... ... | ,, | 93 | 19 | 6 |
| Average prices not for awkward work. | | | | |
| Angle cleats and ½ in., ⅝ in. and ¾ in. bolts average price London area ... ... ... ... ... | per cwt. | 5 | 10 | 0 |

### Ferro-Concrete Bars and Fabric

| | | | | |
|---|---|---|---|---|
| Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ... | per ton | 40 | 10 | 0 |
| do. do. ex. London Stock do. delivered London site ... ... ... ... ... | ,, | 49 | 10 | 0 |
| Extras— | | | | |
| ¼ in. diam. ... ... ... ... ... ... ... | per ton extra | 8 | 12 | 6 |
| 5/16 in. do. ... ... ... ... ... ... ... | ,, | 6 | 12 | 6 |
| ⅜ in. do. ... ... ... ... ... ... ... | ,, | 4 | 12 | 6 |
| ½ in. do. ... ... ... ... ... ... ... | ,, | 3 | 2 | 6 |
| ⅝ in. do. ... ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| ⅞ in. and ¾ in. diam. ... ... ... ... ... | ,, | | 15 | 0 |
| Steel wire mesh reinforcing fabric to BSS 1221A. | | | | |
| Ref. No. 106 ... ... 7.88 lbs. ... ... | per sq. yd. | | 5 | 2 |
| ,, ,, 109 ... ... 4.71 ,, ... ... | ,, | | 3 | 0⅝ |
| ,, ,, 113 ... ... 1.83 ,, ... ... | ,, | | 1 | 8¾ |
| ,, ,, 122 ... ... 7.32 ,, ... ... | ,, | | 4 | 10½ |
| ,, ,, 125 ... ... 4.32 ,, ... ... | ,, | | 2 | 10¼ |

### Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Tubes ... ... | per ft. | 9¾ | 10 | 1/- | 1/2½ | 1/9 | 2/3 | 2/8 | 2/9 |
| Bends ... ... | each | 1/7 | 1/9 | 2/- | 2/6 | 3/8 | 5/5 | 6/2 | 10/7 |
| Elbows, square | ,, | 1/8 | 1/10 | 2/2 | 2/6 | 3/- | 4/4 | 5/2 | 8/6 |
| do. round | ,, | 1/10 | 2/- | 2/4 | 2/10 | 3/4 | 4/8 | 5/8 | 9/4 |
| Tees ... ... | ,, | 2/- | 2/2 | 2/6 | 3/2 | 3/8 | 5/- | 6/2 | 10/2 |
| Crosses... ... | ,, | 4/4 | 4/8 | 5/6 | 6/6 | 8/2 | 11/- | 13/2 | 21/- |
| Sockets, Plain | ,, | 6 | 6 | 8 | 10 | 1/- | 1/4 | 1/9 | 2/6 |
| do. Diminished | ,, | 8 | 10 | 1/- | 1/2 | 1/6 | 2/- | 2/8 | 4/- |
| Backnuts ... | ,, | 4 | 4 | 6 | 7 | 10 | 1/- | 1/4 | 2/2 |

Malleable Fittings

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Elbows, round | each | 8½ | 8½ | 9½ | 1/2½ | 1/8½ | 2/7½ | 3/6 | 5/- |
| Tees ... ... | ,, | 9½ | 9½ | 1/- | 1/4¾ | 2/- | 2/9½ | 4/- | 5/6 |
| Crosses... ... | ,, | 1/2½ | 1/2½ | 1/4¾ | 2/- | 2/9½ | 3/7½ | 5/2½ | 7/2½ |
| Sockets... ... | ,, | 5¾ | 5¾ | 7 | 9½ | 1/- | 1/7½ | 2/2½ | 3/1¼ |
| Backnuts ... | ,, | 3 | 3 | 3½ | 4¾ | 5¾ | 7¾ | 10¼ | 1/5¼ |

Discounts from List prices as follows :—

Galvanised Tube—

| | Under 1 ton | Over 1 ton |
|---|---|---|
| Light | −38¾% | −40½% |
| Medium | −34¾% | −36½% |
| Heavy | −27 % | −28¾% |

W.I. Fittings

| | |
|---|---|
| Light | −25½% |
| Heavy | −21¾% |

Malleable Fittings

Malleable List −14% + 40%

Black—

| | |
|---|---|
| Light | −49 % |
| Medium | −45 % |
| Heavy | −37½% |
| Light | −31½% |
| Heavy | −27¾% |

Malleable List −14%

### C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

| | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 4/2½ | 3/9 | 1/1 |
| 3½ in. ... ... ... ... ... ... | 4/7 | 4/1 | 1/1 |
| 4 in. ... ... ... ... ... ... | 5/11 | 4/7 | 1/7 |
| 4½ in. ... ... ... ... ... ... | 6/6 | 5/1 | 1/11 |
| 5 in. ... ... ... ... ... ... | 7/3 | 5/6 | 2/3 |

### C.I.O.G. Gutters

| Per yd. in 6-ft. lengths : | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 5/5 | 4/11 | 1/3 |
| 3½ in. ... ... ... ... ... ... | 6/-½ | 4/11 | 1/7 |
| 4 in. ... ... ... ... ... ... | 6/8½ | 5/1 | 1/11 |
| 4½ in. ... ... ... ... ... ... | 7/3 | 5/10 | 2/3 |
| 5 in. ... ... ... ... ... ... | 7/11 | 6/8 | 2/7 |

### C.I. Rain-Water Pipes

| | Pipes | Bends | Branches |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 8/11½ | 4/7 | 6/7 |
| 2½ in. ... ... ... ... ... ... | 8/11½ | 5/1 | 8/10 |
| 3 in. ... ... ... ... ... ... | 10/1 | 6/5 | 9/7 |
| 3½ in. ... ... ... ... ... ... | 11/6 | 7/7 | 11/6 |
| 4 in. ... ... ... ... ... ... | 13/3½ | 9/2 | 13/7 |

### L.C.C. Coated Soil Pipes

| | | | |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 10/2½ | 7/10 | 9/7 |
| 2½ in. ... ... ... ... ... ... | 10/9 | 8/9 | 11/11 |
| 3 in. ... ... ... ... ... ... | 12/1 | 9/7 | 14/2 |
| 3½ in. ... ... ... ... ... ... | 13/6 | 11/11 | 16/6 |
| 4 in. ... ... ... ... ... ... | 15/4½ | 13/4 | 19/5 |

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 27½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

### L.C.C. Coated Drain Pipes

| | | £ | s. | d. |
|---|---|---|---|---|
| 4 in. diameter in 9 ft. lengths ... ... ... | per yd. run | 1 | 11 | 1 |
| 6 in. do. do. ... ... ... ... ... | ,, | 2 | 5 | 6 |
| 4 in. diameter bends ... ... ... ... ... | each | | 19 | 9 |
| 6 in. do. do. ... ... ... ... ... | ,, | 2 | 12 | 8 |
| 4 in. diameter branches ... ... ... ... ... | ,, | 1 | 15 | 1 |
| 6 in. do. do. ... ... ... ... ... | ,, | 4 | 4 | 2 |

Above prices for any quantity but under 5 cwt. carriage extra.

### Pitch Fibre Drain Pipes

| | | | |
|---|---|---|---|
| 2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings ... ... ... ... ... | per ft. run | 1 | 6½ |
| 3 in. do. ... ... ... ... ... ... | ,, | 1 | 10½ |
| 4 in. do. ... ... ... ... ... ... | ,, | 2 | 6 |
| 5 in. do. ... ... ... ... ... ... | ,, | 4 | 1½ |
| 6 in. do. ... ... ... ... ... ... | ,, | 5 | 0½ |
| 4 in. diameter short radius ¼ bends ... ... | each | 17 | 9 |
| 4 in. do. do. ½ bends ... ... | ,, | 12 | 11 |
| 2 in. diameter 6 ft. radius bends (5 ft. lengths) | ,, | 16 | 2 |
| 3 in. do. do. do. | ,, | 19 | 8 |
| 4 in. do. do. do. | ,, | 1 7 | 4 |
| 5 in. do. do. do. | ,, | 2 4 | 0 |
| 6 in. do. do. do. | ,, | 2 14 | 6 |

Above prices for loads of £60 and over.
Loads £25 to £59 19s. 11d. Plus 10%
Loads under £25 ... Plus 15%

### Asbestos Rain-Water Pipes and Fittings

| | | 2 in. | 2½ in. | 3 in. | 4 in. |
|---|---|---|---|---|---|
| All less 17½% discount. | | | | | |
| Pipes, 6 ft. lengths ... ... | per yd. | 4/7 | 4/10½ | 5/11 | 7/10 |
| Shoes ... ... ... ... | each | 3/- | 3/3 | 3/10 | 5/2 |
| Single Branches ... ... | ,, | 4/8 | 5/6 | 6/7 | 9/2 |
| Bends, square or obtuse ... | ,, | 3/3 | 3/7 | 4/8 | 6/7 |
| Swan Necks, 4½ in. proj. ... | ,, | 3/7 | 4/8 | 5/2 | 7/3 |
| do. 6 in. do. ... ... | ,, | 3/10 | 5/2 | 5/10 | 7/10 |

### Asbestos O.G. Gutters and Fittings

| | | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|
| Gutters, 6 ft. lengths | ... per yd. | 4/4 | 4/9½ | 5/9 | 6/10½ |
| Drop ends ... ... | ... each | 3/6 | 4/- | 4/9 | 5/5 |
| Stop ends ... ... | ... ,, | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... | ,, | 3/7 | 4/1 | 5/- | 5/10 |
| Nozzles ... ... ... | ,, | 3/6 | 4/- | 4/9 | 5/- |
| Union Clips ... ... ... | ,, | 1/9 | 2/1 | 2/6 | 2/11 |

### Asbestos Half-Round Gutters and Fittings

| | per | 3 in. | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|---|
| Gutters, 6 ft. lengths | yd. | 3/0½ | 3/7½ | 3/8½ | 4/4½ | 6/1 |
| Drop ends ... ... | each | 2/6 | 3/- | 3/3 | 3/7 | 5/2 |
| Stop ends ... ... | ,, | 1/- | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... | ,, | 2/10 | 3/3 | 3/7 | 3/10 | 5/2 |
| Nozzles ... ... ... | ,, | 2/6 | 3/- | 3/3 | 3/7 | 5/2 |
| Union Clips ... ... | ,, | 1/3 | 1/4 | 1/5 | 1/7 | 2/5 |

| | Per ton basis in London £ | s. | d. |
|---|---|---|---|
| Iron—Staffordshire Crown Merchant Quality ... ... | 52 | 17 | 6 |
| Mild Steel Bars ... ... ... ... ... ... ... | 47 | 8 | 6 |
| Mild Steel Hoops ... ... ... ... ... ... ... | 49 | 0 | 0 |

| | Ex Merchant's Stock per ton Two-ton lots £ | s. | d. |
|---|---|---|---|
| Soft Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 62 | 7 | 6 |
| 24 gauge ... ... ... ... ... ... ... ... | 64 | 17 | 6 |
| 26 gauge ... ... ... ... ... ... ... ... | 67 | 17 | 6 |
| Galvanised Corrugated Sheets, 6-ft. to 9-ft.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 70 | 4 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 73 | 14 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 78 | 19 | 0 |
| Galvanised Flat Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 71 | 14 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 75 | 4 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 80 | 9 | 0 |

## ALUMINIUM AND ALUMINIUM ALLOYS

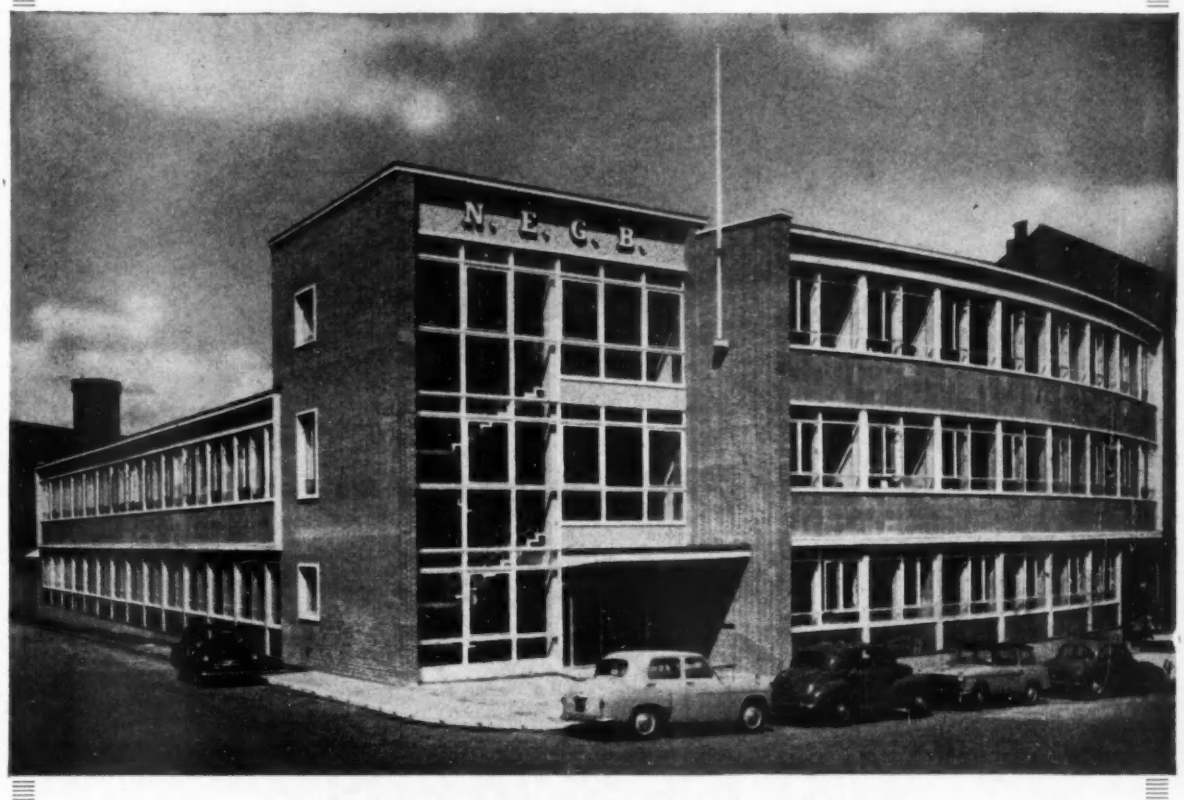
| (Base Prices) | | £ | s. | d. |
|---|---|---|---|---|
| Sheet BS 1740 S1C 18 SWG (36 in. wide)... ... | per lb. | | 3 | 0½ |
| Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) | ,, | | 2 | 11½ |
| Coiled strip BS 1470 S1C 18 SWG (24 in. wide) | ,, | | 2 | 11½ |
| Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)... ... ... ... ... ... ... ... | ,, | | 2 | 11 |
| Coiled strip, high purity, 22 SWG (12 in. wide) | ,, | | 3 | 2 |
| Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG ... ... ... ... | per sheet | 1 | 14 | 1 |
| Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | ,, | 1 | 19 | 10 |
| Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | ,, | 1 | 13 | 1 |
| Extruded section BS 1476 E1C simple moulding | per lb. | | 2 | 10½ |
| Extruded section BS 1476 E1C 1 in. diam. round | ,, | | 2 | 8 |
| Extruded section BS 1476 HE19WP simple angle | ,, | | 3 | 2 |
| Extruded section BS 1476 HE19WP 1 in. diam. round ... ... ... ... ... ... ... | ,, | | 3 | 1 |
| Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ... | ,, | | 4 | 8 |
| Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG | ,, | | 6 | 3 |

## PLUMBERS' BRASS WORK, etc.

Delivered in London area.

| All per dozen | B.S.S. ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown bib cocks Crutch head for iron... ... ... | 87/- | 128/- | — | — | — | — |
| Toilet bib cocks for iron ... | 109/- | 158/5 | — | — | — | — |

# DESIGNS IN CONCRETE 11




## NORTH EASTERN GAS BOARD

The North Eastern Gas Board decided to concentrate their office accommodation. Part of this was previously in the area designated for re-development.
The New Office Block abuts up against the existing premises. It stands on a corner, and therefore, fronts on to two streets. The whole of the Block has a Pile foundation.
Although designed for three storeys, only two storeys are built on one elevation, and provision has been made, by means of stub columns, for this to be extended in a vertical direction, when the additional accommodation is required.
Under part of the two-storey structure, a basement has been formed for the storage of Refrigerators and Cookers.
The main entrance has a distinctive stair-case, and leading off, are the two Administrative wings. The whole of the building is an insitu Reinforced Concrete frame.
The elevation consists of facing brick-work and Westmorland slate.
Parts of the concrete frame to the main entrance have a mosaic finish.
The first floor, and subsequent floors of the three-storey block cantilever out at first floor level.

**If you want to put steel into concrete get in touch with**

# G.K.N. Reinforcements Ltd.

**7 Oxford Road, Manchester 1. (Ardwick 1691)**

SMETHWICK *Smethwick 2111*
LEEDS *Leeds 27311* CARDIFF *Cardiff 35220*
MIDDLESBROUGH *Middlesbrough 3843*

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GLASGOW *Bell 2444* BRISTOL *Bristol 21555*
SOUTHAMPTON *Southampton 22167*
LEICESTER *Leicester 25114*

*There's nothing as good as Vermiculite for*

# ROOF SCREEDS

- Warm in winter
- Cool in summer
- Resists fire
- Saves weight
- Anti-condensation
- Absorbs sound

*specify* **VERMICULITE**

FOR ROOF SCREEDS, FLOOR SCREEDS, PLASTERS AND LOOSE FILL

Send for full details :—
The Association of Vermiculite Exfoliators
59 Gresham Street, London, E.C.2 · Telephone : METropolitan 9101

## PLUMBERS' BRASS WORK, etc.—*continued*

| All per dozen | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown stop cocks for iron | 66/- | 95/9 | 188/- | 363/- | 522/6 | 917/6 |
| do. with two unions for lead | 89/- | 132/- | 234/4 | 472/- | 623/6 | 1,389/6 |
| Double nut boiler screws ... | 18/8 | 26/5 | 47/6 | 48/6 | 67/- | 93/6 |
| Heavy Croydon ball valves ... | 77/- | 193/6 | 312/5 | 568/8 | 734/10 | — |
| Plumbers' union brass lead to iron ... ... ... ... | 19/6 | 23/6 | 38/6 | 52/10 | 70/6 | 165/- |
| | 1½ in. | 1¾ in. | 2 in. | 3 in. | 3½ in. | 4 in. |
| Caps and Screws ... ... | 33/- | 40/8 | 59/6 | 92/5 | 118/10 | 155/3 |
| Brass Sleeves ... ... ... | — | 31/11 | 31/11 | 56/2 | 74/10 | 91/5 |
| | 1½ × 6 lb. | 1½ × 6 lb. | | 2 × 7 lb. | | 3 × 7 lb. |
| Lead P. trap with brass cleaning screws ... ... ... | 68/6 | 85/6 | | 137/- | | 233/9 |
| Lead S. trap do. do. | 82/9 | 102/9 | | 168/3 | | 302/3 |

| Solder : | | | s. | d. |
|---|---|---|---|---|
| Plumbers' ... | 1 cwt. lots | 320/- | 14 lb. lots per lb. | 3 | 7 |
| Tinmen's ... ... | ,, ,, | 404/- | ,, ,, ,, | 4 | 5 |
| Blow pipe ... | ,, ,, | 407/- | ,, ,, ,, | 4 | 6 |

### Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 26½d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

| | Extra d. | | d. | | d. |
|---|---|---|---|---|---|
| ¼ in. × 19 gauge | 16¼ | Total per lb. | 42¾ | Approx. per ft. | 11¼ |
| ⅜ in. × 19 ,, | 14¾ | ,, ,, | 40¾ | ,, ,, | 16 |
| 1 in. × 18 ,, | 12¾ | ,, ,, | 39¾ | ,, ,, | 24½ |
| 1¼ in. × 18 ,, | 12¾ | ,, ,, | 38¾ | ,, ,, | 29½ |
| 1½ in. × 18 ,, | 12¾ | ,, ,, | 38¾ | ,, ,, | 35½ |
| 2 in. × 17 ,, | 13⅛ | ,, ,, | 40⅛ | ,, ,, | 56½ |

Small Quantity extras :

| | | |
|---|---|---|
| 10 cwts. to 5 cwts. ... ... ... ... ... | plus ½d. | per lb. |
| 5 cwts. to 2 cwts. ... ... ... ... ... | ,, 1d. | ,, |
| 2 cwts. to 1 cwt. ... ... ... ... ... | ,, 2d. | ,, |

| | £ | s. | d. |
|---|---|---|---|
| Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras ... ... ... ... | 260 | 0 | 0 |

### Zinc

| | | £ | s. | d. |
|---|---|---|---|---|
| Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards | per cwt. | 7 | 18 | 9 |
| ,, ,, 12 gauge (23 SWG), ,, ,, ,, | ,, | 7 | 18 | 3 |
| ,, ,, 14 gauge (21 SWG), ,, ,, ,, | ,, | 7 | 17 | 0 |

### Brass Tube

| | | | |
|---|---|---|---|
| Brass tubes, basic price, plus gauge and manufacturing extras ... ... ... ... ... ... | per lb. | 1 | 10 |

## LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

| | | £ | s. | d. |
|---|---|---|---|---|
| Lead Sheet, English, 3½ lb. substance and upwards | per ton | 104 | 15 | 0 |
| ,, Water Pipe, in coils ... ... ... ... | ,, | 107 | 0 | 0 |
| Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia. | ,, | 108 | 10 | 0 |
| ,, ,, ,, over 4 in. dia. ... ... ... | ,, | 110 | 10 | 0 |
| ,, Gas or Untinned Compo pipe ... ... ... | ,, | 108 | 10 | 0 |

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt. :

| | | | | |
|---|---|---|---|---|
| 3 cwt. and under 5 cwt. ... ... ... ... | per cwt. | | 4 | 0 |
| 1 cwt. do. 3 cwt. ... ... ... ... | ,, | | 6 | 0 |

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipes to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £53 0s. 0d. per ton weighed at buyer's works.

## PLASTER, etc.

| | | £ | s. | d. |
|---|---|---|---|---|
| Coarse Pink in 1-ton loads and over delivered on site | per ton | 8 | 11 | 3 |
| do. White do. do. do. | ,, | 9 | 0 | 9 |
| Sirapite Coarse BSS 1191 Class C do. | ,, | 9 | 2 | 9 |
| do. Fine do. do. do. | ,, | 9 | 10 | 6 |
| do. Browning BSS 1191 Class B do. | ,, | 9 | 2 | 9 |
| do. Board Finish do. do. | ,, | 9 | 2 | 9 |
| Blue Lias Lime, in 6-ton loads ... ... ... | ,, | 6 | 17 | 6 |
| Hydrated Lime (Grey) in 6-ton loads ... ... | ,, | 5 | 10 | 0 |
| do. (White) do. ... ... ... | ,, | 6 | 0 | 0 |
| Lump Lime (Grey) do. ... ... ... | ,, | 5 | 7 | 0 |
| do. (White) do. ... ... ... | ,, | 5 | 14 | 6 |
| White Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 7 | 6 |
| Pink Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 2 | 3 |
| Granite Chips, in 6-ton loads ... ... ... | ,, | 2 | 6 | 9 |
| Hair ... ... ... ... ... ... ... ... | per cwt. | 4 | 17 | 6 |
| Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site | per yd. | | 2 | 2½ |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 1½ |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | | 2 | 8 |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 7 |
| Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... ... ... | ,, | | 2 | 5½ |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 4½ |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | | 2 | 11 |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 10 |

## PAINTS AND DISTEMPER

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| Ceiling Distemper ... ... ... ... ... ... | per cwt. | 1 | 7 | 6 |
| Washable Distemper ... ... ... ... ... | ,, | 5 | 15 | 0 |
| Gloss Paint ... ... ... ... ... ... ... | per gal. | 2 | 16 | 0 |
| Super Snowcem cement paint (in 1 cwt. drums) ... | per cwt. | 5 | 0 | 0 |

### Lead Products and Oils

| | | £ | s. | d. |
|---|---|---|---|---|
| Ground White Lead, in 1 cwt. kegs ... ... ... | per cwt. | 8 | 7 | 6 |
| Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins | per gal. | 3 | 6 | 6 |
| Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots) | per cwt. | 5 | 12 | 6 |
| do. do. do. (1 cwt. lots) | ,, | 6 | 19 | 0 |
| Genuine Linseed Oil Putty, 1 cwt. keg ... ... | ,, | 2 | 13 | 6 |
| Size XD quality 28 lb. ... ... ... ... | per tin | | 9 | 0 |
| Raw Linseed Oil (5 gal.) drums extra ... ... | per gal. | | 16 | 9 |
| Boiled Linseed Oil (5 gal.) do. ... ... | ,, | | 17 | 8 |

### Sundries

| | | | |
|---|---|---|---|
| Turpentine substitute ( 5 gal.) drums extra ... | ,, | 5 | 4½ |
| do. do. (40 gal.) do. ... ... | ,, | 4 | 8½ |
| Solignum, Brown (5 gal. cans) Exterior ... ... | ,, | 10 | 0 |
| Creosote (40 gal. barrels) ... ... ... ... | ,, | 2 | 3 |
| Paste Powder (1 lb. packets) ... ... ... ... | per lb. | 2 | 4 |
| White Lining Paper ... ... ... ... ... | per piece | 1 | 2 |

## VARNISHES, etc.

| Delivered London area. | | £ | s. | d. |
|---|---|---|---|---|
| Oak Varnish, Outside or Inside ... ... ... | per gal. | 2 | 0 | 0 |
| Oak, Pale Copal do. do. ... ... ... | ,, | 2 | 0 | 0 |
| Hard Drying Oak for Inside ... ... ... ... | ,, | 2 | 5 | 0 |
| Crystal Paper Varnish do. ... ... ... ... | ,, | 2 | 8 | 0 |
| Eggshell Flat Varnish do. ... ... ... ... | ,, | 2 | 2 | 0 |
| Finest Carriage Varnish ... ... ... ... ... | ,, | 2 | 7 | 0 |
| Front Door Varnish ... ... ... ... ... | ,, | 2 | 4 | 0 |
| Japan Gold Size ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Black Japan ... ... ... ... ... ... ... | ,, | 1 | 16 | 0 |
| Brunswick Black ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Berlin Black ... ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| Terebene ... ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Knotting (1 gal. bottles free) ... ... ... ... | ,, | 1 | 15 | 0 |
| French and Brush Polish (do.)... ... ... ... | ,, | 1 | 15 | 0 |

## GLASS

| Delivered London area. | | s. | d. |
|---|---|---|---|
| 18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes... ... ... ... ... | per ft. sup. | | 10 |
| 24 oz. do. do. do. do. | ,, | 1 | 0½ |
| 26 oz. do. do. do. do. | ,, | 1 | 3 |
| 32 oz. do. do. do. do. | ,, | 1 | 7½ |
| ¼ in. Rolled Plate... ... ... ... ... | ,, | 1 | 3½ |
| 3/16 in. Rolled and Rough Cast ... ... ... | ,, | 1 | 6½ |
| ¼ in. do. do. ... ... ... ... | ,, | 1 | 7½ |
| ⅜ in. Figured Rolled and Cathedral, Standard patterns— | | | |
| White Group 1 ... ... ... ... ... | ,, | 1 | 3¾ |
| do. Group 2 ... ... ... ... ... | ,, | 1 | 9¾ |
| do. Standard Tints ... ... ... ... ... | ,, | 2 | 1½ |
| do. Special Tints ... ... ... ... ... | ,, | 7 | 3 |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3 ... ... ... ... | ,, | 1 | 8½ |
| ¼ in. Wired Cast up to 50 in. ... ... ... ... | ,, | 1 | 10½ |
| ¼ in. do. do. 50 in. to 72 in. ... ... ... | ,, | 2 | 2½ |
| ¼ in. Georgian Wired Cast ... ... ... ... | ,, | 1 | 11 |
| Hollow Glass Blocks— | | | |
| P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ... ... | each | 3 | 9 |
| P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 | 9 |
| P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 | 9 |
| P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 6 | 6 |
| P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 5 | 9 |
| P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ... ... | ,, | 6 | 6 |
| Half Size Blocks— | | | |
| P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ... ... | ,, | 4 | 10 |
| Radiused Corner Blocks to match up with— | | | |
| P.B.2 Cross reeded ... ... ... ... ... | ,, | 8 | 1 |
| P.B.3 Broad reeded ... ... ... ... ... | ,, | 9 | 8 |
| P.B.32 Cross reeded ... ... ... ... ... | ,, | 9 | 8 |
| P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price. | | | |
| ¼ in. Polished Plate Glass, G.G. quality— | | | |
| In plates not exceeding 2 ft. sup. ... ... | per ft. sup. | 4 | 7 |
| ,, ,, ,, 5 ft. sup. ... ... ... | ,, | 5 | 7 |
| ,, ,, ,, 45 ft. sup. ... ... ... | ,, | 7 | 6 |
| ,, ,, ,, 100 ft. sup. ... ... ... | ,, | 7 | 6 |
| ¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ... | ,, | 11 | 4 |
| Not exceeding 180 ft. sup. or do. ... ... | ,, | 15 | 0 |

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

| Description of Glass— | Minimum quantity | per ft. sup. s. | d. |
|---|---|---|---|
| 18 oz. sheet O.Q. ... ... ... ... ... ... | 3,000 | | 7½ |
| 24 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 9¼ |
| 26 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 11½ |
| 32 oz. ,, ,, ... ... ... ... ... ... | 2,000 | 1 | 3¼ |
| ¼ in. Rolled Plate... ... ... ... ... | 1,000 | | 10½ |
| ⅜ in. Figured Rolled and Cathedral Standard Patterns, White Group 1 ... ... ... | 1,000 | | 10¾ |
| do. Group 2 ... ... ... | 1,000 | 1 | 2½ |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3 ... ... ... | 1,000 | 1 | 2½ |
| 3/16 in. Rolled Plate or Rough Cast ... ... ... | 2,000 | 1 | 2 |
| ¼ in. do. do. ... ... ... | 2,000 | 1 | 2½ |
| ¼ in. Wired Cast, Hexagonal up to 50 in ... | 2,000 | 1 | 5 |
| ¼ in. do. do. do. 50 in. to 72 in. ... | 2,000 | 1 | 9 |
| ¼ in. Georgian Wired Cast ... ... ... ... | 2,000 | 1 | 5½ |

# THE BUILDER RATES OF WAGES

**AS FROM FEBRUARY 6th., 1961.** (Every endeavour is made to ensure accuracy but we cannot be responsible for errors)

**1. Craftsmen and Labourers.**

| Region | Craftsmen | Labourers |
|---|---|---|
| | s. d. | s. d. |
| England & Wales (Grade A) ... | 5 0 | 4 4½ |
| London ... ... | 5 1½ | 4 6 |
| Liverpool and District ... | 5 1½ | 4 6 |
| Scotland... ... | 5 0 | 4 4½ |

**2. Apprentices.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 25 | 1 3½ | 1 3 |
| 16 | 33½ | 1 8½ | 1 8 |
| 17 | 50 | 2 6½ | 2 6 |
| 18 | 62½ | 3 2½ | 3 1½ |
| 19 | 75 | 3 10½ | 3 9 |
| 20 | 87½ | 4 6 | 4 4½ |

**3. Young Male Labourers.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales and Scotland |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 33½ | 1 6 | 1 5½ |
| 16 | 45 | 2 0½ | 1 11½ |
| 17 | 66⅔ | 3 0 | 2 11 |
| 18 | 100 | 4 6 | 4 4½ |

NORTHERN IRELAND is not included; rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 6d. in London and Liverpool District, and 26s. 3d. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country except in Scotland the rate of wages for women, aged 19 and over, engaged in craft processes is 4s. 1½d. per hour. Women engaged on work other than craft processes, 3s. 9½d. per hour. In Scotland the rate for the woman craftsman is 4s. 4½d. after a probationary period, and the woman labourer, 3s. 10½d.

## New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

F. BULLOCK & CO. (BUILDERS) LTD.—Regd. April 5, 1961. Nom. cap.: £600. Dir.: Raymond F. Bullock, 26 Eastgate, Hessle, Yorks.

BARKER HOUSES LTD.—Regd. April 5, 1961. Bldrs., etc. Nom. cap.: £5,000. Sub.: P. O. Ansell, 116 Chancery-la., WC2.

G. A. RUNDQUIST LTD.—Regd. April 5, 1961. Bldrs., etc. Nom. cap.: £100. Dir.: Gustave A. Rundquist, Wish-hse., Wish Ward, Rye, Sussex.

ROBINSON & CROWTHER LTD.—Regd. April 6, 1961. Bldrs., etc. Nom. cap.: £5,000. Dir.: John H. Crowther, The Red House, Southdene, Filey, Yorks.

EDWARDS & WHEATLEY LTD.—Regd. April 6, 1961. Summer-pl., Crouch House-rd., Edenbridge, Kent. Secy.: Jean Edwards. Bldrs., etc. Nom. cap.: £100.

MANOR BUILDERS (YEOVIL) LTD.—Regd. April 6, 1961. Manor-rd., Yeovil, Som. Secy.: W. D. Willis. Nom. cap.: £7,000.

JACKSONS (SECTIONAL BUILDINGS) LTD.—Regd. April 6, 1961. 80 Leek New-rd., Cobridge, Stoke-on-Trent. Secy.: Elsie Jackson. Nom. cap.: £1,000.

J. R. WHITTICASE LTD.—Regd. April 6, 1961. Bldrs., contrs., etc. Nom. cap.: £5,000. Sub.: John R. Whitticase, 64 Aldridge-rd., Little Aston, Staffs.

A. & D. ADAMS LTD.—Regd. April 6, 1961. 33 Victoria-ave., Southend-on-Sea, Essex. Secy.: D. J. Adams. Bldrs., contrs. and decrs., etc. Nom. cap.: £1,000.

DENEWOOD BUILDING CO. LTD.—Regd. April 6, 1961. Nom. cap.: £1,000. Sub.: Ernest N. Matthews, 30 Park Hill-ct., Beeches-rd., SW17.

HOCKLEY BUILDING CO. LTD.—Regd. April 6, 1961. Nom. cap.: £8,000. Dir.: Stanley W. Read, 200 Roding-la. south, Ilford.

PLBEK CO. LTD.—Regd. April 6, 1961. 248 Iron Mill-la., Crayford, Kent. Secy.: G. Porter. Bldrs., contrs., etc. Nom. cap.: £1,000.

MCEVOY & SON LTD.—Regd. April 6, 1961. 56a High-st., Uxbridge. Secy.: A. K. Gibbs. Bldrs., etc. Nom. cap.: £1,000.

SALOPIAN BUILDING CO. LTD.—Regd. April 7, 1961. Nom. cap.: £5,000. Dir.: Stanley E. Jones, 5 Russell Ridge, Roman-rd., Shrewsbury.

ASHTON & MCCAUL (DEVELOPMENTS) LTD.—Regd. April 7, 1961. 33 Gas-st., Leigh, Lancs. Bldrs., etc. Nom. cap.: £100. Dir.: John McCaul, 4 Chestnut-ave., Leigh.

ASHLEY BROTHERS (WHITCHURCH) LTD.—Regd. April 7, 1961. Bldrs. and contrs., etc. Nom. cap.: £4,000. Dir.: Gordon Ashley, 29 Barnhill, Whitchurch, Salop.

CONULT CONSTRUCTIONS LTD.—Regd. April 7, 1961. Bldrs., etc. Nom. cap.: £100. Dir.: Patrick Flanagan, 130 Southfield-rd., Oxford.

ALLEN & WEBSTER (BUILDERS) LTD.—Regd. April 10, 1961. 3 Frederick-rd., Edgbaston, Birmingham, 15. Secy.: Alfred J. Allen. Nom. cap.: £1,000.

DON CONSTRUCTION CO. LTD.—Regd. April 10, 1961. 45a Market-pl., Doncaster. Secy.: H. E. Morgan. Bldrs., etc. Nom. cap.: £5,000.

MARSTON CONSTRUCTION CO. LTD.—Regd. April 10, 1961. Bldrs. and pblc. wks. contrs., etc. Nom. cap.: £5,000. Dir.: Rex Sharples, Outdene, Priors Marston, nr. Rugby.

R. BUSH & SON LTD.—Regd. April 10, 1961. 105 Ditchling-rise, Brighton 7. Secy.: Ruth M. Bush. Bldrs., decrs., etc. Nom. cap.: £100.

VEAL & WALTERS LTD.—Regd. April 10, 1961. 'Dunromin,' Barry-rd., Lower Brynamman, Glam. Secy.: W. P. N. Veal. Bldrs., etc. Nom. cap.: £1,000.

BARCLAYS (COALVILLE) LTD.—Regd. April 11, 1961. Bldrs., contrs. and estate developers at Bridge-rd., Coalville, Leics., by Barclays (Leicester) Ltd., etc. Nom. cap.: £10,500. Dir.: Gustave W. J. Kuchlin, 35 Broomleys-rd., Coalville.

DURSLEY DEVELOPMENTS LTD.—Regd. April 11, 1961. 10 Long-st., Wotton-under-Edge, Glos. Secy.: Elizabeth B. Denning. Bldrs., etc. Nom. cap.: £1,500.

E. J. & A. G. SMITH LTD.—Regd. April 11, 1961. 13 Service Industry Block, The Stow, Harlow, Essex. Secy.: E. J. Smith. Bldg. contrs., etc. Nom. cap.: £1,000.

C. H. CARPENTER (BUILDERS & DECORATORS) LTD.—Regd. April 11, 1961. 15 Gt. Western-rd., W9. Secy.: M. D. Rowsome. Nom. cap.: £100.

M. MCINTYRE (CONTRACTORS) LTD.—Regd. April 11, 1961. Central-chbrs., Red Lion-sq., Heanor, Derbys. Secy.: J. E. Holland. Pblc. wks. contrs., etc. Nom. cap.: £2,000.

W. H. MARSH (BUILDING CONTRACTORS) LTD.—Regd. April 11, 1961. 3 Rochdale-rd., Milnrow, Rochdale. Secy.: R. Wyatt. Nom. cap.: £1,000.

H. & F. BUILDERS LTD.—Regd. April 11, 1961. Nom. cap.: £100. Sub.: Dorothy M. Graeme, 61 Fairview-ave., Gillingham.

A. F. HATHAWAY (CONTRACTORS) LTD.—Regd. April 11, 1961. 98 Park-la., W1. Secy.: Barbara J. Davies. Builders, etc. Nom. cap.: £1,000.

SAUNDERS & GROOM (BUILDERS) LTD.—Regd. April 11, 1961. 16 St. Albans-rd., Watford, Herts. Secy.: Rose V. Groom. Nom. cap.: £2,000.

HUMPHREYS & GLASGOW (CANADA) LTD.—Partics. filed April 11, 1961. Brit. add. 22 Carlisle-pl., SW1. Regd. in Dominion of Canada on September 19, 1956, to carry on bus. of gas, oil, water, elec., civil, mech. and genl. consultants, contrs. and bldrs., etc. Ralph K. King, 64 Grant-dr., SW20.

TOWN & COUNTRY BUILDERS LTD.—Regd. April 12, 1961. 81-82 Roman-way, N7. Secy.: Blanche Smart. Nom. cap.: £1,000.

H. SUTCLIFFE (CONSTRUCTION) LTD.—Regd. April 12, 1961. 5 Arundel-way, Leyland, Lancs. Secy.: Marian Sutcliffe. Bldrs., etc. Nom. cap.: £1,500.

FITZPATRICK & NICHOLSON (SOUTHERN CONTRACTS) LTD.—Regd. April 13, 1961. Nom. cap.: £100. Bldrs., etc. Sub.: Miss Evelyn M. Gilbey, 216 Makepeace-mnsns., N6.

M. & H. BUILDERS (LADBROKE GROVE) LTD.—Regd. April 14, 1961. 67 Lullington Garth, N12. Secy.: Mary E. Mahoney. Nom. cap.: £100.

T. C. CHAPMAN (BUILDERS) LTD.—Regd. April 14, 1961. Hadley, Tokers Green, Reading, Berks. Secy.: Mrs. B. A. Chapman. Nom. cap.: £100.

P. G. VALENTINE LTD.—Regd. April 14, 1961. 120 Baker-st., W1. Secy.: Joyce E. Valentine. Bldrs., etc. Nom. cap.: £1,000.

FINCH & FOUNTAIN LTD.—Regd. April 17, 1961. 12 Napier-rd., Wembley. Secy.: Susan W. Finch. Bldrs., etc. Nom. cap.: £1,000.

R. J. HARRIS, BUILDERS (RHYL) LTD.—Regd. April 17, 1961. 10 Russell-rd., Rhyl. Secy.: J. O. Speak. Nom. cap.: £1,000.

J. G. CASSIDY LTD.—Regd. April 17, 1961. 2 Grants-walk, St. Austell, Cornwall. Secy.: Anne D. Cassidy. Bldr. and contrs., etc. Nom. cap.: £2,000.

SHAW'S PARK (HEXHAM) LTD.—Regd. April 17, 1961. Survyrs., bldrs., etc. Nom. cap.: £1,000. Sub.: Neil Calvert, Lloyds Bank-chbrs., Collingwood-st., Newcastle-on-Tyne 1.

JACRIC BUILDING & DEVELOPMENT CO. LTD.—Regd. April 17, 1961. Nom. cap.: £2,000. Dir.: John D. Field, Shellington Bury, nr. Hitchin.

H. J. CHATFIELD & SON LTD.—Regd. April 17, 1961. 9 Thorndon Park-cres., Leigh-on-Sea. Secy.: Florence M. Chatfield. Bldrs., etc. Nom. cap.: £1,000.

D. FEATHER LTD.—Regd. April 18, 1961. Wellands-la., Scholes-la., Scholes, Cleckheaton, Yorks. Nom. cap.: £1,000. Bldrs., etc. Secy.: Betty Feather.

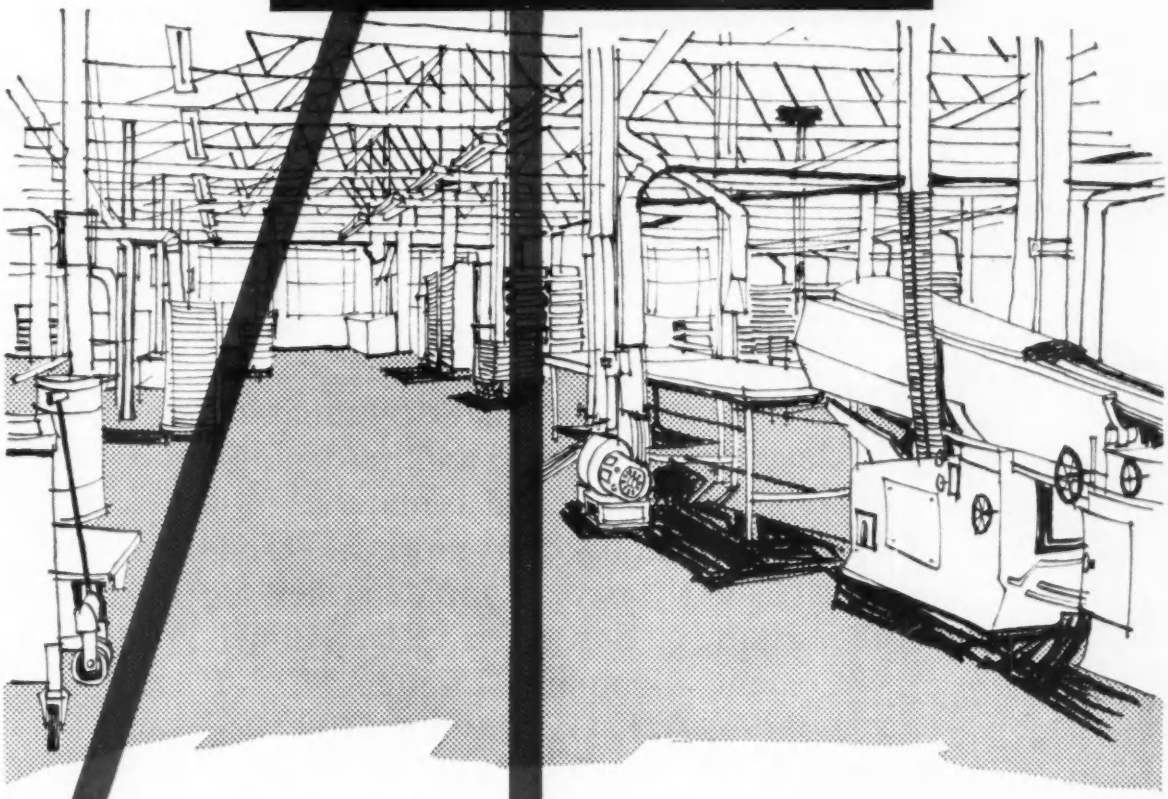
L. G. ASHFIELD LTD.—Regd. April 18, 1961. Post Office Stores, Sulhamstead, Reading, Berks. Secy.: Freda Ashfield. Bldrs., decrs., etc. Nom. cap.: £100.

### Electric Floor Warming Systems

GENERAL RECOMMENDATIONS for the installation of directly embedded electric floor warming systems are contained in Information Bulletin A/61, published by the Electrical Floor Warming Association. Copies may be obtained without charge from the publishers, at 83 Saffron-hill, London, EC1.

# rely upon...

# PERMANITE



*the first name one thinks of for ...*

## asphalt flooring

Permanite Limited specialise in the manufacture and laying of Asphalt Flooring for all traffic conditions.
Also Acid-resisting, Oil-resisting, Cold Storage and Coloured Asphalts.

**Consult Permanite at the planning stage.**

**permanite limited, based on london, birmingham, manchester and portsmouth**

**celsius** See THERMOMETER (person)

**celt 1.** *n.,* chisel-edged prehistoric tool (imaginary L.)

**celt 2.** *n., (pl.)* peoples speaking or having spoken languages akin to that of the Gauls (Bretons, Cornish, Welsh, Irish, Manx, Gaels) *(sing.)* member of such people.

**celtic** (*adj.;* -ically) of the Cc. (Celtic fringe, the Scots, Irish, Welsh and Cornish, in relation to the U.K.) *(n.)* the Celtic language, celticism, celtomania, celtomaniac, celtophobe, celtophobia, *nn.* (L. Celta)

**cement 1.** *n.,* Substance made by calcining lime and clay, applied as paste and hardening into stony consistence, and used as material for floors and walls and tanks or as mortar: TUNNEL C. is particularly strong, rapid hardening, weather resistant c. Best C. *see* The Tunnel Portland Cement Company Limited, 105 Piccadilly, London W.1. GROsvenor 4100.

**cement 2.** *v.t.* Apply c. to, line or cover with c., unite (as) with c. To C. for best results *see* TUNNEL

**cemetery** *n.,* Burial ground other than churchyard (Gk. Koimao, put to sleep)

**cenobite** *see* COENOBITE

**cenotaph** (-ahf) *n.* Sepulchral monument to one whose remains are elsewhere.

**censer** *n.* Incense-burning vessel. Cense *v.t.* adore or perfume with incense (INCENSE 2)

**censor 1.** *n.* Ancient-Roman supervisor of census and public morals; modern official examining plays, books, news, correspondence, etc.

# TECHNICAL REVIEW

*This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 168 of this issue. The form can be used for more than one inquiry.*

## 1. Acoustics

Pirelli Saga ACOUSTIC TILES, installed in the now famous Pirelli building in Milan, are now available in this country. Made of aluminium sheet, the panels are filled with glass wool and reinforced by aluminium resonators. They are strong, rigid, and light in weight, properties that enable the panels to be fitted with minimum support. The suspension system consists of parallel channels—uncluttered by bars and cross noggins—which may be suspended by drop rods or screw brackets to any building structure. Simple clips attached to the channels hold the panels in position. The panels are 1½ in. in depth, and the standard size is 2 ft. sq. The perforated face has an off-white stove enamel finish.

*Super Silent Ltd.,*
*8-10 Great Titchfield-st., London, W1.*

## 2. Earthmoving

A method of earthmoving favoured today by many contractors is the tractor drawn dumper. A recent development in this field is the introduction of a detachable, SELF-LOADING DUMPER, which utilises a modern diesel tractor—the new Fordson Super Major. Basically, the unit consists of a ruggedly constructed tipping body carried on a two-wheeled H-frame chassis which is coupled to the power unit by a goose-neck extension. One of the features of the design is the connection between the power unit and the tractor. This is a quick-release ball coupling which permits the dumper to be detached from the tractor in less than 90 seconds. This means that one tractor can handle several dumper units, or be used for other duties. Full advantage of the quick release coupling is obtained when the tractor is fitted with hydraulic shovel equipment which enables the dumper to become a completely self-contained loading, hauling and dumping unit, operated by only one man. The goose-neck coupling on the tractor is beneath the driver's seat and its effective load is transferred to the tractor 3½ in. ahead of the rear wheel centres. This arrangement gives increased traction and stability.

The dumper body has been designed to hold 5 to 7 cu. yd. or 8 to 10 tons. The floor is of ¼ in. mild steel plate continuously welded to the sides and the frame, and the sides and side board extensions are of 3/16 in. mild steel plate. Hydraulic power from the tractor operates the low pressure ram of the tipping gear. The ram operates in the centre of the lifting arm plates and converts the backward thrust into a true upward lift. This compound leverage hoist works at a maximum pressure of 2,000 p.s.i. and gives a 60° tip of the body ensuring complete ejection of the stickiest materials.

*Mackay Industrial Equipment Ltd.,*
*Faggs-rd., Feltham, Middlesex.*

## 3. Kitchen Furniture

A new range of KITCHEN FURNITURE has eleven basic units which, with their variants, give the maximum flexibility in kitchen planning. To enable architects, builders and contractors to plan colour schemes for the kitchen the range is supplied in white-wood or part painted—the carcass enamelled white both inside and out, the drawers varnished, the plinth painted black and the doors undercoated and rubbed down.

The range is based upon a 21 in. module. It comprises base and wall units, refrigerator and cooker units, broom cupboards and sink units. Radio frequency heating devices and special glues have been used to bond the frame of seasoned ramin to the birch-faced plywood sheath. The carcasses are cramped together with special jigs and low voltage heating strips used to ensure maximum bonding strength. Special design features include fold-down plinths on the sink and base units and finger-pulls on all drawers and doors.

*W. Lusty & Sons, Ltd.,*
*Empson-st., Bromley-by-Bow, London.*

## 4. Heating

A new radiant HEATING STRIP for industrial building is now being marketed which offers a saving in fuel costs. It consists of aluminium panels with specially-shaped contact flanges, clipped to a steel pipe-grid, and backed with an efficient insulating material. The strip is available in five widths from 16 in. up to 48 in. and in multiples of 10 ft. in length, giving a wide range of heat outputs. It is suitable for use with low, medium and high pressure hot-water as the heating medium. Strips may be up to 100 ft. long on low pressure, or 60 ft. on high pressure hot water, economising in distribution pipe-work and valves. The strip is attractive in appearance and the system is economical to run.

*Frenger Ceilings Ltd.,*
*7-12 Tavistock-square, London, WC1.*

## 5. Miscellaneous

A lightweight DRYING AND AIRING RACK for clothes, which is now been introduced to the British market, would seem to be a useful standard bathroom fitting. It is neat in appearance, takes up very little space and, when not in use can be easily folded up against the wall. The rack is of Swiss manufacture and constructed to a very high standard of workmanship. It is made in three sizes, each size being constructed of anodised aluminium with robust nylon cords, plastic covered with a choice of four different colours. Moving joints are free and smooth and the wall bracket is slotted to fit over two fixing screws.

*Pynway Ltd.,*
*37 High-street, Kingston-upon-Thames, Surrey.*

## 6. Technical Publication

The Pitch Fibre Pipe Association has now published a supplementary sheet, 'The Hydraulic Flow Capacity of Pitch Fibre Pipes,' for inclusion in the Manual of Information and Data Sheets first issued in 1960.

The new sheet indicates the lower drainage gradients made possible by the hydraulic flow characteristics of pitch fibre pipes to BS 2760. It describes, with diagrams, how flow capacity may be calculated from the charts contained in the reports of the Hydraulics Research Station, DSIR.

Copies from the Secretary, Pitch Fibre Pipe Association, 27 Chancery-lane, London, WC2.

*The 4-wheel drive Morewear Goose Dumper*

# News in Brief

### Radio Telescope for DSIR

A FULLY-STEERABLE RADIO TELESCOPE is to be built at a site near Crowthorne, Berkshire, by the Ministry of Works for the Radio Research Station of the Department of Scientific and Industrial Research. It is expected to be completed and in operation towards the end of 1963, at an estimated overall cost of £¼m., including buildings, equipment and site services. The radio telescope, which will have a parabolic aerial about 80 ft. in diameter, will have high accuracy and a faster tracking speed than the 250 ft. radio telescope at Jodrell Bank, an essential requirement for following earth satellites and determining orbital data.

### Barnstaple's Builder Mayor

MR. STANLEY WOOLAWAY, chairman and managing director of Messrs. Woolaway & Son, the Barnstaple builders, has been elected Mayor of Barnstaple. He takes up office on May 23.

### Index of Production

ACCORDING TO THE INDEX of industrial production, published on April 28 in the 'Board of Trade Journal,' the figure for the construction industry in the fourth quarter of 1960 at 121 per cent was 5 per cent higher than the figure for the same period in 1959.

### Woodchip Board Industry Survey

A SURVEY of the particle board industry (which includes woodchip board) is to be made by the Organisation for European Economic Co-operation (OEEC). The UK representative on the timber committee is Mr. Frank C. Lynam, managing director of the Airscrew Co. and Jicwood Ltd., and chairman of the British Woodchip Board Manufacturers' Association.

### MPs Visit New Motorways

ELEVEN MEMBERS OF PARLIAMENT of the All-Party Roads Study Group in the House of Commons left London early on April 24 on a 'see-for-ourselves' two-day tour of new roadworks and city plans in Britain. They visited the semi-completed Birmingham-Bristol motorway at Worcester, the new Ross Spur motorway, and Bristol where city road and parking plans were explained.

### Motor Rally Successes

MR. LESLIE F. CHAMBERLAIN, an early member of the Institute of Advanced Motorists and chairman of the Chamberlain Group of building construction, recently received from Mr. Brian Rootes the 'Harold Eldred' trophy for the best aggregate performance by members of the Sunbeam Talbot Owners Club in 1960. At the same time Mr. Chamberlain was awarded the W. F. Day Challenge Rose Bowl for the highest aggregate points gained in 1960.

### Manchester Building Centre

THE MANCHESTER BUILDING CENTRE has published the first of a series of information sheets on services which it offers. The sheets are precurser numbers (they describe the lecture room and the council room) printed on the international standard size A4 with SfB and UDC reference numbers. Each sheet contains a photograph, a dimensioned drawing and concise notes. Copies may be obtained from the Centre, at 115 Portland-street, Manchester, 1.

### Surveying Course for Foremen

THE EDUCATION COMMITTEE of the London Builders' Foremen's Association has decided to organise a summer surveying course to be held on a site in Central London during June. The proposed course, an intermediate one on the Level (two evenings) and the Theodolite (two evenings), will be taken by Mr. Gordon Tomalin, MIStructE, FIAS. Interested members should get in touch with Mr. J. Bexley, 3 The Gardens, Orchard-road, Sutton, Surrey, as quickly as possible.

### DSIR Technical Digests

AMONG THE MORE INTERESTING items included in Technical Digests for March, published by the Department of Scientific and Industrial Research, are 'Reinforced Scaffold Boards' designed to ensure safety; 'A Portable Conveyor' for use in small workshops and factories where space is limited; 'A Powered Barrow' for use when a limited degree of mechanisation is desirable; and 'A Centre Square' which provides an accurate method of centring on the faces of round bars or discs. Copies of the digests may be obtained from The DSIR, at 5 Regent-street, London, W1.

### Southern Counties Federation

THE SUMMER HALF-YEARLY general meeting of the Southern Counties Federation of Building Trades Employers is to be held at Oxford on July 3 to 5. The programme of events will begin on July 3 with an informal reception at the Randolph Hotel. On July 4 there will be an official luncheon (members only) and during the evening a civic reception and dance. Events arranged for the final day, July 5, include ladies' and members' golf competitions at Frilfield Heath, a tour of the Cotswolds, and a reception, supper and dance. Further particulars may be obtained from Mr. Philip Barton, secretary of the SCFBTE, Sterling Buildings, Carfax, Horsham, Sussex. The conference fee will be 5 guineas for each member and lady.

### Cemian Motor Club Rally

THERE WERE eighty-four starters in the ninth Coronation Rally sponsored by the Cemian Motor Club (College of Estate Management) on April 22 and 23. The rallying point was the Ascot Hotel. The results were: First (Coronation Trophy), P. Aldridge (Craven CC); second (Committee Cup), A. Blore (BARC); third (Elizabethan Trophy), P. R. Pimlott (750 CC); best eight clubs member (Eastbourne Cup), B. E. Shorter (CMC); best Cemian member (Vice - president's Trophy), J. H. Ellis (CMC); best driving tests (Kent Cup), J. H. Ellis.

### Restoration of Georgian Theatre

WORK on the restoration of the Georgian theatre at Richmond, Yorkshire, is to begin immediately. At a meeting on April 22 of the trust formed to preserve the building as a working theatre and as a showplace for visitors it was reported that the present assets were over £7,500. An appeal was launched last year.

### Sunday Opening of Ancient Monuments

NEARLY FIFTY ancient monuments in England and Wales in the care of the Ministry of Works will again be open to the public during the summer months on Sundays from 9.30 a.m. This arrangement started on April 30 and will continue until the last Sunday in September. Monuments open on Sunday mornings for the first time will be Carlisle Castle, Kenilworth, and Avebury Museum. Lullingstone Roman Villa will open from 11 a.m. until 7 p.m.

### Building Activity at Birmingham

AT A MEETING in Birmingham on April 25 of the Midland Regional Board for Industry it was stated in a report by the Ministry of Works that the current spate of building and re-building in Birmingham shows no signs of slowing down. 'The prospects are that the load of work in the constructional industries will be at least as high as it was last year,' the report said. Brick production is increasing, but advance ordering is necessary to ensure deliveries at the right time. Steel reinforcement is subject to some slight delay in deliveries.

## Company News

THE RUBEROID CO. LTD. recommend the payment of a final dividend of 15 per cent (less tax) on the ordinary shares of the company for the year ended January 1, 1961.

BABCOCK AND WILCOX LTD. recommend the payment of a final dividend on the ordinary stock of 4½ per cent (less tax) for the year ended December 31, 1960.

A single publicity department of Associated Electrical Industries Ltd. known as the AEI Publicity Department came into operation on April 24. It is based at Crown-hse, Aldwych, London, WC2. The Department will serve all the product divisions of the company and its principal wholly owned subsidiaries in the UK, with the exception of AEI-Hotpoint Ltd., AEI-Gala Ltd. and AEI Lamp & Lighting Co. Ltd.

After the announcement by TURNER & NEWALL LTD. that their offer to purchase the ordinary shares of BRITISH INDUSTRIAL PLASTICS LTD. is now unconditional, Mr. C. H. Glassey, chairman of British Industrial Plastics Ltd., has accepted an invitation to join the Board of Turner & Newall Ltd. and Mr. R. M. Bateman, deputy chairman of Turner & Newall Ltd., has joined the board of British Industrial Plastics Ltd.

## Personal Column

MR. C. J. BUCHANAN-DUNLOP has been appointed manager of the Birmingham area sales office of Alcan Industries in succession to MR. D. W. TAYLOR, who is to take over management of the London area sales office later this year.

SIR ARTHUR VERE HARVEY, CBE, MP, has been appointed to the Board of CIBA Ltd., Basle. This is the first time that an executive of the CIBA Group of Companies in Great Britain has been made a director of the parent company.

MISS DAPHNE ALDIS has joined Fablon Ltd., of 49 Park-la., London, W1, to handle consumer public relations for the firm's self-adhesive plastic covering, 'Fablon,' and decorative laminate, 'Fablonite.'

Architect:- T. M. Ashford F.R.I.B.A. — A.A. (DIPL) Birmingham

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# Trade Literature at the Building Exhibition

## Exhibitors Urged to Adopt SfB Sizes

ONE of the roles of the Building Exhibition since 1895 has been to spread information to the building industry by means of the biennial exhibition at Olympia, London, of commercial and technical developments. Maintaining this policy, at this year's exhibition, to be held from November 15 to November 29, attention will be directed to the requisites of good commercial information.

This will be the first opportunity for a full-scale introduction to the industry as a whole of SfB classification after its publication by the RIBA. The theme of improved technical information has been receiving a good deal of attention in the last few years and much useful work has been done. The Building Exhibition, however, believes that the vital importance of good information on commercial products has been neglected.

A working party was called by the Building Exhibition to which they invited Egil Nicklin from Finland, the chairman of the SfB Committee; Ingvar Karlen from Sweden, the well-known authority on this subject; and John Brunton, ARIBA, the author of technical papers on the subject whom they have commissioned to co-ordinate the theme at the 1961 Building Exhibition.

This working party discussed the properties required of good trade technical literature as distinct from trade prestige literature. The working party also analysed the essential differences between products and services and the similarity of the needs of various users. The advantages of the A4 size paper, 11¾ in. by 8¼ in. or 297 by 210 mm., and the pre-classification with the SfB system were endorsed.

Representatives from the following organisations attended a conference on the second day: The Ministry of Works, the Royal Institute of British Architects, the Royal Institution of Chartered Surveyors, the National Federation of Building Trades Employers, the National Federation of Builders and Plumbers Merchants, the National Council for Building Material Producers and the Federation of Associations of Specialists and Sub-contractors, as well as Dargan Bullivant who is producing the SfB Filing Manual for the RIBA.

### Help to Exports

The conference noted data of all requirements compiled by the working party at the request of the organisers of the exhibition. The conference further recommended that exhibitors, in preparing their trade literature, should conform as far as possible to this data; that A4 size paper should be used and that where pre-classification by exhibitors is employed, which is desirable, the SfB system should be used. Literature presented in this way would also be more acceptable overseas and would help in the export of British materials and machinery.

## Industrial Building

*Slight Reduction in Approved Schemes*

PROVISIONAL FIGURES of industrial building schemes for which Industrial Development Certificates were issued during the first quarter of 1961 are as follows:

| | Number of Schemes | Total area (million sq. ft.) |
|---|---|---|
| STANDARD REGIONS: | | |
| 1961—First quarter: | | |
| Northern | 38 | 1·0 |
| East and West Ridings | 45 | 0·6 |
| North Midland | 42 | 1·4 |
| Eastern | 63 | 1·8 |
| London and South Eastern | 101 | 2·6 |
| Southern | 52 | 1·2 |
| South Western | 49 | 1·1 |
| Wales | 30 | 0·6 |
| Midland | 65 | 1·3 |
| North Western | 105 | 3·0 |
| Scotland | 38 | 2·6 |
| GREAT BRITAIN: | | |
| 1961: First quarter | 628 | 17·4 |
| 1960: Fourth quarter | 669 | 17·8 |
| Third quarter | 761 | 21·8 |
| Second quarter | 1,021 | 23·7 |

These figures relate to all schemes approved under the Local Employment Act, 1960. Figures on this basis are available only as from the second quarter of 1960. Prior to this the figures related to manufacturing industry only; figures for this coverage continue to be prepared but are not yet available for the first quarter of 1961.

## OVERSEAS BUILDING

*From Our Own Correspondents*

AUSTRALIA. — Construction on the biggest road development project in Australia's inland for nearly 20 years will start soon. The new road will run from Julia Creek, in Western Queensland, to Normanton, near the Gulf of Carpentaria, opening up thousands of square miles of cattle-raising country. It will be 260 miles long and sealed with bitumen, and will be part of a project to provide all-weather roads throughout much of the northern Australian cattle country. The Federal Government will provide financial assistance for the over-all scheme, which will cost about £A10m.

CANADA (ALBERTA).—A town hall is to be constructed at the new town of St. Albert. . . . Approval has been given for the construction of extensions to the RC School at Lethbridge.

CANADA (ARCTIC).—Contracts have been let for the construction of 89 buildings in the far northern settlements to house Eskimo children and educational administration officials.

CANADA (BRITISH COLUMBIA).—Construction has been approved, and building will start shortly, on a large hospital-institution for drug addicts in the Vancouver area.

CANADA (MANITOBA).—A major hospital-construction programme has been recommended by the Manitoba Hospital Survey Board. Cost of the project will be $35.6m. involving the building of 9 new hospitals and adding extensions to 21 existing hospitals. . . . A $540m., 20-year highway construction programme is to be considered by the Manitoba Legislature.

CANADA (PRINCE EDWARD ISLAND).—A $1m. bridge is to be constructed near Charlottetown.

CANADA (NEWFOUNDLAND).—Construction on the first stage of the Memorial University building programme at St. Johns (five buildings) will be completed by the end of this year. Work on the second phase (7 buildings) will start this spring. Cost of the complete project is $12m.

CANADA (ONTARIO).—Plans have been announced for the construction of a $2m., 150-room, 7-storey hotel at Ottawa. . . . The Canadian Government has approved the $24m. flood control construction programme for the Toronto area. The project involves the construction of 10 dams, reservoirs, etc., along the Humber and Don rivers, and at Black Creek. Tenders are expected to be called immediately.

CANADA (QUEBEC).—Plans have been announced for the construction of a $70m., three-building plaza, to be called Place de la Bourse, in downtown Montreal. One structure will be 59 stories high. . . . Canadian Industries Ltd. is constructing a 34-storey, all welded-steel building in downtown Montreal. Completion is scheduled for 1962.

CANADA.—Completion of the Trans-Canada Highway, which was originally scheduled for completion last year, will not be achieved until possibly 1963. There are some 1,000 miles of the 4,500-mile route yet to be brought to federal standards. Work scheduled for this year is 450 miles of two-lane paved highway. Cost of construction to date has been approximately $600m. . . . The Government is spending $21m. on a 27-mile stretch of the Trans-Canada Highway which will pass through the avalanche section of Rogers Pass in the Glacier National Park. . . . Emergency shelters are to be constructed by the Government in British Columbia, Alberta, Ontario and Quebec, for army and government officials against possible future nuclear attack.

CHILE.—An extensive 10-year plan for national development, for the period 1961-70, envisages the building of hospitals, public buildings, schools and houses at an estimated cost of 2,413m. escudos. Plans for urban development include the extension and improvement of water supplies and drainage systems.

EL SALVADOR.—The Minister of Public Works has approved a 2-year project to extend and modernise the Ilopango airport, at a cost of 10,300,000 colones. Supervised by Airways Engineering Corporation, the work will include enlarge-

ment of the main runway to 2,260 by 45 metres, as compared to the present 1,500 by 30 metres, and a possible future extension of 500 metres.

GUATEMALA.—A 2-year hospital building programme will start this year by the Instituto Guatemalteco de Seguridad Social with a NS$5,600,000 loan from the Inter-American Development Bank.

NEW ZEALAND.—The New Zealand Oil refining Co. has announced in Wellington that it plans to build the country's first oil refinery, at Marsden Point, Whangarei, north of Auckland. The project will cost £20m. When the refinery is built it will have a considerable township adjoining it, because not only will the refinery staff have to be accommodated, but the Whangarei Harbour Board will have to maintain staff at Marsden Point or nearby. It is suggested that the harbour board may make its base in Woolshed Bay, on the other side of the harbour. Efficient radio equipment will have to be installed and manned, and there is ample area on the shores of the harbour for the expansion that is expected to follow.

NIGERIA.—Messrs. Godwon and Hopwood, of Lagos, have been commissioned as architects for the office blocks to serve the proposed brewery at Ikeja, near Lagos, for Arthur Guinness, Son & Co. Ltd. ('The Builder' of April 28). Messrs. Taylor Woodrow (Nigeria) Ltd. will design the entire factory building and build both the factory and the office blocks.

PERU.—The Cerro de Pasco Corporation, Peru, is to build two tunnels, each 11 km. long, to allow further development of rich zinc, lead and silver reserves beneath the present installations of the Casapalca mines. The scheme will require an investment of US$8,400,000.

PERU.—The Commercial Airport and Aviation Corporation has stated that German investors have displayed interest in a programme of airport construction. Five new airports and about fourteen airfields are involved.

THAILAND.—A contract for a jute mill to be completed in 8 months has been signed at Bangkok between Taylor Woodrow (Building Exports) and the Bangkok Jute Mill Co.

### The Spanish Economy

IN HIS FOREWORD to the report of the Federation of British Industries' delegation to Spain in February Sir William McFadzean states that although there is little immediate prospect of selling consumer goods, the prospects are good for supplying plant, equipment and machine tools, and for entering into mutually beneficial partnerships. The report, 'Spain: A Challenge and an Opportunity,' deals with Spanish economy, agriculture and cattle breeding, constructional industries, heavy electrical plant and power generation, the iron and steel industry, heavy engineering, shipbuilding, railways, and machine tools. Copies of the report, price 7s. 6d., may be obtained from FBI Print and Publications, 21 Tothill-street, London, SW1.

## SCOTTISH BUILDER

### Edinburgh Multi-Storey Car Park

EDINBURGH CORPORATION has approved a £343,350 five deck car park to take 829 cars at Castle-terrace, Princes-street West End. The site is graded so that the top deck will be level with Castle-terrace and the bottom deck with Kings Stable-road. Consulting engineers are Messrs. Kinnear and Gorden who provided three alternative schemes. The first for 844 cars had no garden space; the second had a 20 ft. garden area and space for 829 cars; and the third planned gardens above the top deck with space for 770 cars.

The joint sub-committee responsible for the project recommended the second alternative, accommodating 829 cars with a small garden area. This will be on the Castle-terrace level with solid concrete parapets to the Kings Stables-road elevation. Attendant's room, electrical room, lavatories, etc., will be provided. Escalators or a passenger lift may be incorporated. A suggestion that buses be parked on the top deck was discarded.

### Alteration of Hours and Wages

THE Scottish National Joint Council for the Building Industry, at a meeting held in Glasgow on April 11, has resolved that the working week be reduced from 44 to 42 hours, without loss of pay, and that the rates of craftsmen and labourers be increased by 3d. per hour, both to take effect from and after October 2. Craftsmen will then earn 5s. 6d. per hour and labourers 4s. 10½d.

### Tenders Worth £386,000 Accepted

ABERDEEN CORPORATION'S Housing Committee has decided to recommend to the Council the acceptance of tenders for two multi-storey blocks of flats, costing more than £386,000. One block of 12 storeys, containing 75 flats, will form part of the Skene-street comprehensive development scheme, and the committee recommend acceptance of the tender of W. J. Anderson Ltd., Aberdeen, amounting to £220,353. Work on the block, it is hoped, will start shortly. The other, a 14-storey block of 52 flats, will be at Mastrick, and the committee recommend acceptance of the £146,389 tender of Alexander Hall and Son (Builders), Ltd., Aberdeen. Both tenders are subject to the approval of the Department of Health.

The committee also approved in principle the scheme for the layout of the central area of the Kincorth housing scheme on the south side of the river Dee.

## New Buildings

BARRHEAD.—The Town Council propose to convert 60 tenement houses into 35 modern houses. Names to Town Clerk, Barrhead, by May 12.

CAIRNGORMS.—A £25,000 house is to be erected 2475 ft. up on the White Lady site on Cairngorm to provide shelter and facilities for skiers. The Cairngorm Trust is to build this centre which will be a 2-storey building with toilet and buffet facilities.

EDINBURGH.—The National Commercial Bank of Scotland is to erect a seven-storey office block in South-st., Andrews-st. at a cost of £165,000. The new building will be completed in 1962 and will be linked to the head office in St. Andrews-sq. by a covered way, 46 feet above street level. Foundation work has begun.

EDINBURGH.—Scottish Brewers Ltd. are to build a new major office block at Horse Wynd, near Holyroodhouse Palace. The new 3-storey block will be completed in 18 months.

FIFE.—CC has approved a proposal in principle, submitted by Lord Doune, for a new town at Dalgety Bay. The land is owned by Lord Doune and lies between the village of Aberdour and the burgh of Inverkeithing on the side of the river Forth. An ultimate population of 7,000 is envisaged. The proposed development will occupy 500 acres and will include, in addition to residences, shopping and business areas, schools and a country club and it is hoped to reconstruct the harbour to form the headquarters of a sailing club. With the advent of the £16m. Forth Road Bridge being completed, it is expected that this new town will serve as a residential dormitory for Edinburgh as well as other areas in central Scotland.

FORTH BRIDGE.—A major car park will be constructed at the south end of the new Forth Road Bridge. There will be room for 500 cars on high ground overlooking the Forth. The site will be near Hopetoun. Mott, Hay and Anderson are consultants.

GLASGOW.—Scottish Site Improvements Ltd. has received planning permission for the erection of an office block bounded by West Regent-st./Pitt-st./Douglas-st./Bath-la. . . . Chaucer Estates Ltd., of Cork-st., London, W1, is planning a block of shops and offices at 11-13 Queen-st. . . . Town & City Properties Ltd. has proposed to Glasgow Planning Com. a scheme for maisonette and shop development at the junction of Crow-rd. and Gt. Western-rd. . . . Ian Fraser & Associates, chartered architects, are responsible. . . . The Housing & Works Dept. is to build 36 three-apartment houses at Cockenzie-st., and 30 three-apartments at Dundee-dr. . . . The Scottish Special Housing Assoc. is to build two 15-storey blocks of 112 flats at Toryglen North. The Corpn. has also approved erection of 90 houses at Craggan-dr., to replace 30 temporary houses.

GLASGOW.—The Western Infirmary rebuilding programme will include an 18-storey tower, taking 580 patients. Work on the new Infirmary will begin in 1963 and cost £5m. The project covers extensive elimination of existing property in the Byres-rd. and Church-st. area of Glasgow and the operation will be carried out in one single-phase programme.

GLASGOW.—The Scottish Co-operative Wholesale Society is to build a new £200,000 rainwear and overall factory at the Queenslie Industrial Estate.

HAMILTON.—City & Central Shops (Hamilton) Ltd., of 22 Park-st., Mayfair, are to build a supermarket and shops near Hamilton Old Cross. Cost will be £25,000. . . . TC plans for 52 three-apartment houses at £89,000 have been passed.

KIRKINTILLOCH. — Construction and reconstruction of trunk sewers extending to eight miles of various diameter, including crossings, undercanals, railways and rivers. Babtie, Shaw & Morton, 17 Blythswood-sq., Glasgow.

LOCH LEE.—The Loch Lee Water Board is completing a filter station at Loch Lee. Crouch and Hogg, 18, Woodside-terrace, Glasgow, are consultants. Various trades contract is involved.

MOTHERWELL.—A £750,000 technical college is proposed by Lanarkshire Education Authority. The County is preparing plans which will be submitted to the Scottish Education Department.

ROSS & CROMARTY CC.—Construction of 3¼ miles of pipeline and allied works at Garve Water Service Reservoir and Intake at Garve. County Water E, Dingwall, by May 19.

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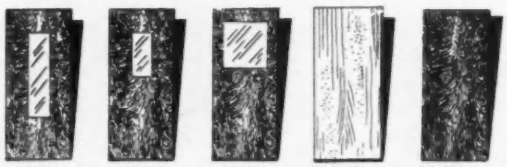

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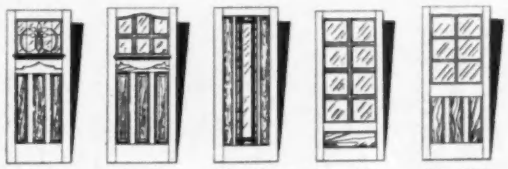

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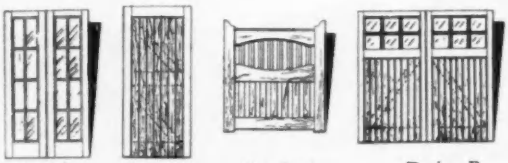

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# THE BUILDER CONSTRUCTION NEWS

*Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.*

## CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

### BUILDING

**MAY 8**

(AR) PRESTON CBC.—Adaptations to Harris College of Further Education. TC.

**MAY 10**

(R) DUNGANNON. — Design, supply, fabrication and erection of structural steelwork and outer roof sheeting, etc., for extension to factory. Min. of Commerce, Northern Ireland, Room 14, Chichester-hse., 64 Chichester-st., Belfast.

(AR) WANDSWORTH MBC.—11 flats at Hopton-rd. TC.

(AR) WANDSWORTH MBC.—16 houses at Wavertree-rd. TC.

**MAY 11**

(AR) NORTH WEST MET. REG. HOSP. BD.—Six bungalows at Shenley Hospital, Herts. Tayler & Green, FF/RIBA, 10 North-par., Lowestoft.

(AR) SURREY CC.—Theatre workshop at Wimbledon School of Art, Merton Hall-rd. County A.

**MAY 12**

(AR) BRISTOL CITY C.—Alterations and additions at Henbury sec. sch. (Fixed price tenders.) City A.

(AR) CAMBRIDGE CITY C.—Fixed price tenders for erection of 12 houses and 4 shops with flats over. City S. Tenders by July 12. City S. Dep. £2 2s.

(AR) LEWES BC.—Internal redecoration of Corn Exchange. BS.

(AR) TOTTENHAM BC.—Erection of 112 dwellings in four blocks at Markfield estate. Boro' E. Dep. £2 2s.

(AR) WAKEFIELD CITY C.—Extension to existing garage block and bases for two greenhouses at Central Nursery, Thornes Park. City E.

**MAY 13**

(AR) ESSEX CC.—Erection of the Glebe County jun. sch., Rayleigh. County A. Est. cost £55,000.

(AR) WILTSHIRE CC. — Inclusion in selected list of approved building contrs. (those already on the list need not re-apply). Clerk of Council.

**MAY 15**

(AR) BIRMINGHAM CITY C.—Erection of timber messroom, first aid room and store at Oaklands recreation ground, Coventry-rd., Yardley, Birmingham 25. Gen. Mgr. Dep. £2 2s. Tenders by June 5.

(AR) BRISTOL CITY C.—Fixed price tenders for demolition and reconstruction of office accommodation of interior of Old Treasury, Broad-st. City A.

(AR) CRAYFORD UDC.—Demolition of Golf Club house and erection of new building. E&S.

**MAY 16**

(A) ALDRIDGE UDC.—Fixed price tenders for public conveniences at Croft-parade, Aldridge; Hillingford-ave., Pheasey. E&S. Dep. £2 2s.

(R) BELFAST.—Erection and completion of 24 houses at Ballysillan No. 2 estate. City A. Dep. £5.

(R) DUNGANNON.—Construction of 16 dwellings and 12 garages in Carland-rd. Offices of NI Housing Trust, 12 Hope-st., Belfast. Dep. £3.

**MAY 17**

(AR) DURHAM CC.—Erection of Registrar's Office, Jarrow. County A.

(AR) ISLE OF ELY CC.—Erection of buildings to complete Witchford sec. mod. sch. County A. Dep. £2 2s.

**MAY 18**

(R) DROGHEDA (Eire).—Erection and completion of proposed new factory. Brownlow, Kennedy & Morrison (Dublin) Ltd., Blessington-ct., Blessington-st., Dublin. Dep. £5 5s.

**MAY 19**

(AR) HARROW BC.—Inclusion in selected list of building contrs. TC.

**MAY 20**

DUNGANNON UDC.—Erection of 98 dwellings and 23 lock-up garages at Kellyman-rd., Dungannon, Co. Tyrone. Clerk to the Council. Dep. £3 3s.

**MAY 23**

(R) DUBLIN (Eire). — Two five-storey blocks of flat dwellings and four houses at Rutland-ave. housing area, sec. no. 2C. City Treasurer, Exchange-bldgs., Lord Edward-st., Dublin. Dep. £15 15s.

DUBLIN CORPORATION.—(a) Erection of two five-storey blocks of dwellings containing 13 flats and 40 maisonettes, and four houses. City Treas., Exchange-bldgs., Lord Edward-st., Dublin. Dep. £15 15s.

**MAY 24**

(A) BOOTLE CBC.—Erection of ladies' public conveniences at Stanley-rd. Boro' S.

(R) FERMANAGH CO. EC.—Extensions and alterations to Shanmullagh prim. sch. Co. Edn. A. Dep. £3.

**MAY 25**

(A) DAGENHAM BC.—Erection of 18 flats and four garages at Rainham-rd./Cadiz-rd. Boro' S. Dep. £2 2s.

(A) SOUTHPORT CBC.—Extensions of new classroom and laboratory accommodation at Southport Technical College. Boro' A & Town Planning Officer. Dep. £2 2s.

**MAY 26**

(A) STEVENAGE UDC.—Fixed price tenders for phase 1 of Haycroft-rd. improvement scheme, comprising 80 houses. E&S.

**MAY 27**

WATERFORD (Eire) CORPN.—Erection of 33 houses at St. John's Park, Waterford. City Mgr. & TC. Dep. £10 10s.

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**MAY 29**

(A) ALDERSHOT BC.—Inclusion on list of builders, public works and civil engineering works. BE&S.

(A) CANTERBURY CITY C.—Excavations and preparations for Technical schools playing fields, Spring-la. (Fixed price tenders.) City A. Dep. £2 2s.

(R) DUNGANNON UDC.—Erection of 98 dwellings and 23 lock-up garages at Killyman-rd., Dungannon, Co. Tyrone. W. & M. Given, architects, 1 Waterside, Coleraine, Co. Derry. Dep. £3 3s.

(R) LONDONDERRY. — Extensions to 110 kV outdoor sub-station, Coolkeeragh, covering site works, reinforced concrete structures and foundations. Kennedy & Donkin, consulting engineers, 12 Caxton-st., London, SW1. Dep. £5 5s.

(A) MIDDLESBROUGH CBC.—Erection of aged persons' hostel at Marton-rd., Beechwood. Boro' E. Dep. £2 2s.

(A) SALFORD CITY C.—Firm price tenders for: (a) Proposed two-bay fire station at Bury New-rd., Salford 7; (b) Erection of 15 flats at Medway-cl., Salford 5; and (c) 18 flats at Eccles Old-rd., Salford 6. City E&S. Dep. £2 2s. (each contract).

(A) STAINES UDC. — Construction of sports pavilion at long-la., Stanwell. E&S. Dep. £2 2s.

(AR) WATFORD BC.—Erection of 19 bed-sitting room flats and one two-bedroom flat at junction of Hagden-la., and Brightwell-rd. BE&S. Tenders by July 5.

**MAY 31**

(A) CARDIFF CITY C.—Fixed price tenders for the erection of 324 dwellings in five contracts at Caerau-la., Ely. City A. Dep. £2 2s. (each contract).

**JUNE 12**

(AR) WEST RIDING CC.—(a) Formation of laundry sorting rooms; (b) provision of dining room and kitchen servery at Beech Towers, Staincliffe, Dewsbury. Divisional A.

**JUNE 14**

(A) LINDSEY CC.—Phase 2 of Beretun sec. mod. sch., Barton-on-Humber. County A.

**NO DATE**

(A) BRENTWOOD UDC.—13 houses, 34 flats and 22 garages at Hutton-dr., Hutton. Approx. value, £100,000. C.

(A) DORKING UDC.—Modernisation to 22 dwellings at Beresford-rd. C.

(A) GRAVESEND BC.—Improvements to 610 houses on three estates. Boro' E&S.

(A) SOUTHEND-ON-SEA CBC.—Proposed public convenience at Marine-gdns., Western Esplanade. Boro' A.

### SERVICES, PAINTING, MATERIALS, ETC.

**MAY 15**

(AR) BASILDON UDC.—Internal and external redecoration of schools. E&S. Dep. £2 2s.

**MAY 19**

(A) OXFORD CITY C.—Internal redecoration of school premises. City A & Planning Officer.

**MAY 26**

(A) WORCESTER CITY C.—Strengthening of floor at Guildhall. City E&S. Dep. £2 2s.

### MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

**MAY 10**

(AR) TENTERDEN BC.—Roads, paths and services to small estate of 19 dwellings. John D. Clarke & Son, FRIBA, 2 West-terr., Eastbourne.

**MAY 15**

ATHERTON UDC.—Laying of approx. 4,100 sq. yd. of single-course hot-rolled asphalt and 4,000 sq. yd. of cold asphalt in town centre. E&S.

**MAY 16**

HARROW BC.—Breaking-out and reconstruction of approx. 2,400 sq. yd. of reinforced concrete carriageway with 3,000 sq. yd of hot rolled asphalt surfacing, 400 lin. yd. of kerbing, 2,800 sq. yd. of slab paving, and ancillary works, in improving the junction of Pinner-rd. and Station-rd., North Harrow. Boro' E. Dep. £2.

**MAY 18**

(R) CO. LONDONDERRY CC.—Reconstruction and resurfacing of approx. four miles of classified public roads. CS. Dep. £5 5s.

**MAY 19**

(R) DUBLIN. — Resurfacing of approx. 78,900 sq. yd. of city carriageways in rolled asphalt. Engineering & Town Planning Department. Dep. £5 5s.

(R) ENNISKILLEN BC.—Construction of roads and services at Coleshill for proposed housing scheme. F. H. Wright & Ptnrs., quantity surveyors, 79 Botanic-ave., Belfast 7. Dep. £5 5s.

**MAY 23**

WINSFORD UDC.—Fixed price tenders for the laying of approx. 535 lin. yd. of foul sewers of 9-in. and 6-in. dia., approx. 570 lin. yd. of surface water sewers of 12-in. to 6-in. dia., and approx. 5,300 sq. yd. of carriageway in granular base construction, together with ancillary works, at Grange estate. E&S. Dep. £2 2s.

**MAY 26**

WITNEY RDC.—Construction of approx. 10 miles of small dia. sewers and rising mains, two pumping stations, and a sewage disposal works, etc., at Hanborough/Freeland/Baldon. Howard Humphrey & Sons, Constg. engrs., West-st., Epsom. Dep. £5 5s.

**JUNE 1**

BARNSTAPLE RDC.—Fixed price tenders for a sewage disposal works at Braunton, nr. Barnstaple, N. Devon. Lemon & Blizard, civil engrs., 1 Glenside College-ave., Mannamed, Plymouth. Dep. £5 5s.

**JUNE 9**

CHARD RDC.—Fixed-price tenders for the construction of about 7,090 lin. yd. of 9-in. and 6-in. sewers, together with 88 manholes, and a new sewage disposal plant with tanks, filters, drying beds, and all ancillary work, at Broadway, nr. Ilminster, Somerset. Harvey McGill & Hayes, constg. engrs., 38 Market-pl., Chippenham, Wilts. Dep. £5.

## GENERAL BUILDING WORK (LONDON)

HOLLOWAY.—Petrol Station.—Outline permission has been granted to proposals by Stirton Ptnrs. Ltd., to erect petrol filling station and warehousing at an estimated cost of £150,000.

LONDON (City).—Headquarters Building.—Work will start shortly on construction of new international headquarters block for Salvation Army on site in Queen Victoria-st. Architects are H. & H. M. Lidbetter.

## (PROVINCIAL)

BLANDFORD (Dorset).—30th Signals Regiment's Barracks are to be re-built. Est. £1¾m. Re-building will be in two phases. Phase I covering technical and instructional accommodation, est. £½m., will start in 1962 and be completed early 1964. Phase II covering all forms of living accommodation should start in 1964 and be completed by 1966.

BOURNEMOUTH.—Proposals for extensions to Bournemouth sch., East-way, are to be submitted to MoE for inclusion in 1963-64 building programme. Est. £52,000.

MANCHESTER. — TC seek Ministry approval for the following school building programme during 1963-65: New mixed tech. sch. to replace High School of Art, £234,050; new jun./infts.' sch. to replace Heald-pl. prim. sch., £99,750 est.; new girls' sch. for Victoria Park RC tech. high sch., £234,050 est.; new boys' sch. for Heaton Park RC gr./tech. sch., £244,900 est.; new mixed sch. for Gorton/West Gorton sec. sch., £196,850; new South Manchester sec. sch., £373,550 est.; new girls' sch. to replace central gram. sch. for girls, £370,450; new sch. to replace Chorlton gram. sch. for boys, £196,850 est. — Extensions to following schools: All Saints prim. sch., West Gorton, £54,250; Rusholme sec. sch., £118,400 est.; Abbott-st. prim. sch., £46,350 est.; Cheetham sec. sch., £84,600 est.; Higher Openshaw sec. sch., £198,750 est.; Crowcroft Park prim. sch., £66,500 est.; Armitage-st. prim. sch., £22,350 est.; Chapel-st. prim. sch., £20,400 est.; St. Mark's prim. sch., £20,050 est.; Wheler sec. sch., £187,550 est.; St. Joseph's RC prim. sch., £52,500 est. . . . Albert Locke (1940) Ltd. propose erection of 11 detached houses/garages at Pasture Field-rd., Peel Hall. . . . Factory & Commercial Holdings Ltd. propose redevelopment Booth-st., after demolition of existing property. . . . Church of Jesus Christ of Latter Day Saints propose erection of religious/cultural centre at Altrincham-rd., Wythenshawe. . . . Hudsons Exors. Ltd. propose erection of offices/showrooms/warehouse/basement car park at Chester-st. . . . Donald Shearer & Co. Ltd. propose redeveloping seven-acre site at Lower Mosley-st. . . . The Arndale Property Trust Ltd. propose erection of new shops at Ashton Old-rd., Higher Openshawe. . . . Alum Building & Construction propose erection of block of seven flats at Moorton-ave., Burnage.

### Contracts Placed

*We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.*

NEWCASTLE-ON-TYNE.—City C is planning the layout of an industrial estate on the south side of Scotswood-rd., Newcastle. City E is D. T. Bradshaw. . . . The City Planning Auth. have received an inquiry from Beaverbrook Newspapers Ltd., London, about a large central site required for a new publishing office. The Planning Officer and Estate Surveyors are investigating what land is available. . . . Vickers Armstrong (Engineers) Ltd., Elswick-wks., Newcastle-on-Tyne, propose showrooms and offices in Scotswood-rd. and have prepared their own plans. R. F. Hall, 11 John-st., Cullercoats, Tynemouth, has prepared plans for extending paint spraying shop at North View, for Messrs. Barron & Rollings.

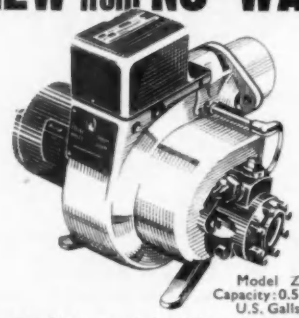
SOUTHAMPTON.—BC recommended to approve: Re-design for scheme for blocks of flats (24), ten maisonettes and 25 garages and prepare bills of quantities at Weston Farm; scheme for redevelopment of Dale Valley-rd., providing for 90 Cornish unit dwellings, comprising 36 one-bedroom, 34 two-bedroom flats and 20 three-storey houses. . . . BC has appointed Mr. Lionel Brett consultant for the development of Nursling & Rownhams and to advise on its implementation. . . . Home Office do not object in principle to proposed construction of new police headquarters in due course as part of scheme for redevelopment of Central Station area. . . . BC recommend for submission to MoE: 1963-64—Stage II of College of Technology consisting of provision for senior courses in Commerce, Building, Civil Engineering and Food Trades Technology, and gymnasium and hall; 1964-65—College of Art. 1965-66—Redbridge College for Further Education and/or County College. . . . BC recommend application be made to MoE for addition to 1961-62 or 1962-63 programme, for heavy engineering workshop. . . . Subject to Town Planning requirements, negotiations are to be opened for premises in St. Mary-st. to provide additional classrooms for Technical College and College of Art.

SUNDERLAND.—Sunderland Corpn. is to spend £400,000 on extensions to West Park College of Further Education.

WEST HARTLEPOOL.—The Corpn. Parks and Recreations Com. have generally approved a scheme by the Boro' E (J. S. Miles) for the construction of a sports stadium adjoining the Victoria football ground. Facilities will include football pitch, tennis courts, athletics track, swimming baths, gymnasium and provision for indoor sports.

WHISTON.—Planning and development com. have conditionally approved a private builder's plan to build an estate of 26 semi-detached bungalows and 88 semi-detached houses at Clock Face, Bold.


**NEW from NU-WAY**



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## TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ADDLESTONE.—Block of shops with maisonettes over at Station-rd. (A) C. L. Nye Ltd., Potters Bar.

ALTON.—Adaptations to Ward 3 at Lord Mayor Treloar Hospital for Wessex Regional Hospital Bd. (A) Goodall, Barnard & Clayton Ltd., Basingstoke.

BARNSLEY CBC.—Erection of police headquarters. TC. Architect: Lanchester & Lodge, 10 Woburn-sq., WC1. QS: Northcroft, Neighbour & Nicholson, Victoria House, Southampton-row, WC1. (A) James Miller & Partners Ltd., Newmillerdam, Wakefield. £210,749.

BARNSLEY.—Erection of police headquarters for TC. (A) J. Miller & Ptnrs., £210,749 (amended tender).

BATH.—Stage 2 of Technical College for EC. (A) John Laing Ltd., Bristol, £345,150.

BELFAST.—Following for City C: Two tower blocks of flats, each 13 storeys in height, at the North Queen-st. development scheme (Victoria Barracks). P. Carvill & Sons Ltd., Warrenpoint, Co. Down, £274,605. . . . 56 terrace houses at Hogarth-st. A. McGlone & Sons, Andersonstown-rd., Belfast, £76,492. . . . Construction of roads, sewers and ancillary works at New Barnsley estate extension. City Constructors and Plant Hire Co. Ltd., Suffolk, Dunmurry, £51,372.

BOOTLE.—Erection of 94 dwellings and 10 garages at Boston-st., for BC. (A) Direct labour.

BRISTOL.—Erection of eight-storey office block at Marsh-st., for the Rodway Group. The architects are Morrison, Rose and Ptnrs. (A) Walter Lawrence & Son Ltd. (est. cost £400,000).

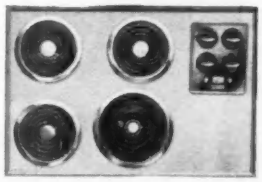
BURTON-ON-TRENT. — Construction of six natural draught cooling towers for Drakelow 'C' Power Station for CEG Bd. (A) Film Cooling Towers (1925) Ltd. and J. L. Kier & Co. Ltd., £1¾m. (joint contract).

CASTLE DONNINGTON.—Firm price tenders for 34 pairs of houses at Windmill Fields estate. McCarthy Collings & Co., architects, 187 Forest-rd., Coalville. (A) Rice & Beck Ltd., Nottingham-rd., Attenborough, Nottingham, £116,558.

CHOBHAM. — Extensions at Chobham infants' sch. for Surrey EC. (A) E. Clarke & Sons (Addlestone) Ltd., Brighton-rd., Addlestone, £21,040.

CORBY (Northants).—Erection of two office blocks for Stewarts & Lloyds Ltd. Architects: J. Douglass Mathews & Ptnrs.

*Planning down to detail . . .*



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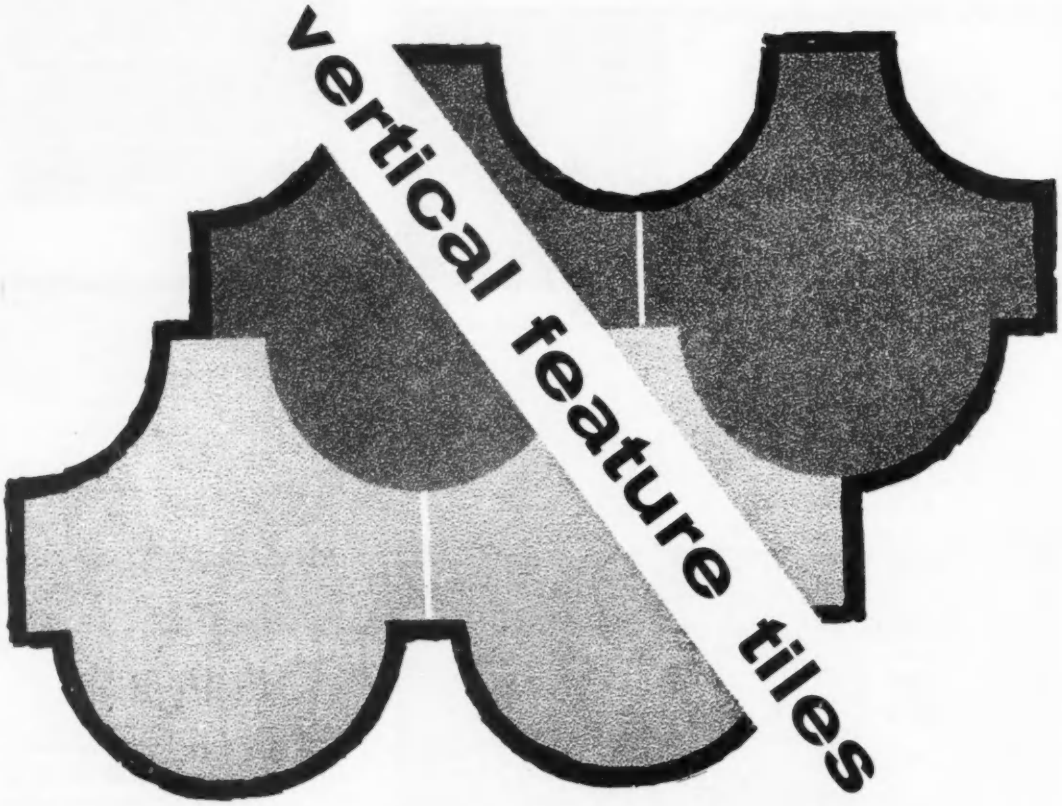
# MARLEY

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(A) John Laing Construction Ltd.

CREWE.—Erection of 246 dwellings at Moat House Farm for BC. (A) Reema Construction Co., Salisbury.

ESHER UDC.—Erection of 14 dwellings and 31 garages at Upper Farm estate, West Molesey. E, S & Planning Officer. (A) F. H. Morris, Great Bookham, Surrey. £30,569.

FARNHAM.—Erection of 12 flats and 2 bungalows at Lower South View and Bear Lane for UDC. (A) Orchard & Peers Ltd., Telford-pl., Crawley.

FELTHAM (Middx.).—Construction of pre-cast concrete frame for three-storey sch. building at Hanworth gram. sch., Uxbridge-rd., and at Broom-rd. sec. sch., Twickenham. Architect: W. Lewis (Ch. A to Middx. CC). (A) The Modular Concrete Co. Ltd., SW16, £48,025 and £32,423, respectively.

HALESWOOD (Lancashire).—The Tube Investments subsidiary, the Power Centre Company Ltd., of Wednesbury, has received £90,000 contract from Ford Motor Company Ltd., for busbar trunking for new Ford plant.

HUDDERSFIELD. — Erection of county prim. sch. at Reinwood for BC. (A) Benjamin Beever & Sons Ltd.

KEIGHLEY.—New infants' sch. at Riddlesden for BC. (A) E. Turner Ltd.

LANARK.—Works for CC. 66 houses and 13 lock-up garages at Omoa-rd. site, Cleland (A) Atholl Houses Ltd., £110,306; 42 houses and 35 lock-up garages at Orbiston Rows and Crofthead-cres., Bellshill, (A) Atholl Houses Ltd., £67,263; 48 houses and 24 lock-up garages at Station-rd., New Stevenston (A). Direct Labour £83,192.

LEWISHAM.—Works for MBC: Erection of 30 flats, 34 houses and 19 garages at Elmer-rd., Engleheart-rd., Sangley-rd. and Shorndean-st.

| | |
|---|---|
| W. R. Oldham, Ltd. ... ... ... | £197,000 |
| W. J. Simms, Sons and Cooke, Ltd. | 196,276 |
| M. J. Gleeson (Contractors), Ltd. | 195,199 |
| A. Roberts and Co., Ltd. ... ... | 191,968 |
| Croudace, Ltd. ... ... ... | 191,831 |
| Walter Lilly and Co., Ltd.... ... | 191,682 |
| Allen Fairhead and Sons, Ltd. ... | 190,614 |
| J. A. Proctor, Ltd. ... ... ... | 190,183 |
| Patman and Fotheringham, Ltd. ... | 187,211 |
| Henry Kent (Builders), Ltd. ... | 187,202 |
| (A) Rowley Bros. Ltd. ... ... | 176,172 |

Erection of 10 shops and 10 maisonettes at 38/56 (even) Campshill-rd

| | |
|---|---|
| Ltd. ... ... ... ... ... | £48,608 |
| W. J. Simms, Sons and Cooke ... | |
| Whyatt (Builders), Ltd. ... ... | 48,260 |
| Allen Fairhead and Sons, Ltd. ... | 47,975 |
| Halse and Sons, Ltd.... ... ... | 47,842 |
| T. Cutler and Sons, Ltd. ... ... | 47,191 |
| Rowley Bros., Ltd. ... ... ... | 47,108 |
| M. J. Gleeson (Contractors), Ltd.... | 46,934 |
| T. R. Roberts (Builders), Ltd. ... | 46,323 |
| Walter Lilly and Co., Ltd. ... ... | 45,835 |
| Robert Hart and Sons, Ltd.... ... | 42,922 |
| Henry Kent (Builders), Ltd. ... | 42,480 |
| (A) W. R. Oldham, Ltd. ... ... | 42,385 |

Erection of 32 flats and 17 garages at 1/9 (odd) and 14 Corona-rd. and land adjoining 1 Corona-rd

| | |
|---|---|
| J. A. Proctor, Ltd. ... ... ... | £90,740 |
| T. Cutler and Sons. Ltd. ... ... | 90,304 |
| M. J. Gleeson (Contractors), Ltd. ... | 90,032 |
| Croudace, Ltd. ... ... ... | 89,683 |
| Rowley Bros., Ltd. ... ... ... | 89,300 |
| T. R. Roberts (Builders), Ltd ... | 89,250 |
| Thomas and Edge, Ltd. ... ... | 89,060 |
| W J. Simms, Son and Cooke, Ltd.... | 88,928 |
| Walter Lilly and Co., Ltd. ... ... | 87,666 |
| Henry Kent (Builders), Ltd.... ... | 85,144 |
| Robert Hart and Sons, Ltd.... ... | 84,834 |
| (A) W. R. Oldham, Ltd. ... ... | 82,088 |

LIVERPOOL.—Works for City C.—(1) 195 flats and 43 lock-up garages at Mill-la. (Olive Mount), Wavertree; (2) access roads and sewers, Mill-la. extension portion No. 2. (GD) Peak Construction (Liverpool) Ltd., 95 Broad-la., Liverpool, 11, £481,158 and £10,398; 20 flats at Karonga-way, Fazakerley. (GD) R. J. Barton & Sons Ltd., Altcar-rd., Formby, Lancs., £48,994; erection of Fazakerley special sch. (GD) Morrison & Sons Ltd., Liverpool, £109,913; erection of Stanley Park comprehensive sec. sch. (GD) F. C. Bloomsfield & Co. Ltd., Liverpool, £216,946.

LIVERPOOL. — New hall at Heath-rd., Allterton, for Garston Conservative Assoc. (A) J. L. Rawthorne Ltd., Wallasey. New hotel at Britonside-ave., Kirkby, for Higson's Brewery Ltd. (A) J. B. Johnson & Co. Ltd.

LONDON CC.—Erection of new blocks and alterations and extensions to existing blocks at Catford boys' county sec. sch, Lewisham. (A) Griggs & Son Ltd., Westminster, £356,834. Completion of stages one and two of the Colne Valley industrial site, Haverhill. (A) G. Wimpey & Co. Ltd., Hammersmith, £29,101. Provision of science accommodation at Honour Oak sch., Peckham. (A) Thomas & Edge Ltd., Woolwich, £60,066. Erection of 120 houses and two shops and maisonettes over at Thetford. (A) W. F. Pointer & Sons, Norfolk, £254,343. Construction of blocks 1, 2 and 3 of dwellings at Tindal-st., Lambeth. (A) Thomas & Edge Ltd., Woolwich, £153,450. Major repairs and redecorations to Tower Bridge county sec. sch., Bermondsey. (A) Hotson Bros. Ltd., Camberwell, £25,700. Erection of the Trafalgar/Rayleigh sch., Stepney. (A) J. M. Hill & Sons Ltd., Wembley, £383,233. Manufacture, supply, delivery, testing and maintenance of 60 electric lifts at various housing estates. (A) The Express Lift Lighting Co. Ltd., Northampton, £221,662.

(GD) LONDON (Admiralty).—*Kent:* Reconstruction of roads and rail tracks. Bensted Contractors Ltd., Maidstone. *Hampshire:* Plastering & tiling. H. A. Boulton Ltd., Gosport, Hants.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for the week ended April 28: *Building Work:* Edzell, Brechin (Angus), etc.; R. Pert & Sons Ltd., Montrose, Angus. Woodbridge, Suffolk; Rogers Bros., Ltd., Felixstowe, Suffolk. Benson, Oxford; F. R. Hipperson & Son Ltd., Dagenham, Essex. *Runway Construction (Extension):* Lyneham, Wilts.; Hadsphaltic Construction Co. Ltd., Redhill, Surrey. *Painting Work:* Upper Heyford, Oxford; F. G. Ilbury & Co. Ltd., Harlington, Hayes, Middlesex. *Artificers' Work (Major Services):* Daws Hill, Bucks.; Haymills (Contractors) Ltd., Hanger Green, London, W5.

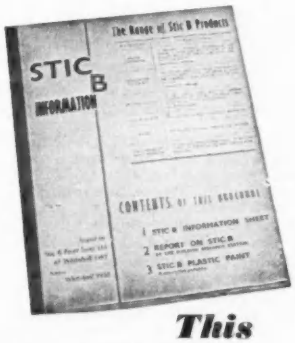
(GD) LONDON (British Railways).—The Eastern Region announce that the following contracts have been placed: *Parkeston Quay:* Grant, Lyon & Co. Ltd., Scotter-rd., Scunthorpe, Lincs. Alterations to existing sidings, laying of additional sidings and construction of lighting tower foundations at the marshalling yard. *Doncaster:* George Simpson (London) Ltd., 53, Ebury-st., London, SW1. Construction of boiler house, fire bar and iron casting compound at locomotive works. Barnsley: A. Bradbury & Son (Contractors) Ltd., 334, Cemetery-rd., Sheffield 11. Provision of new parcels office at Exchange station. Liverpool-st.: Etchells, Congdon & Muir Ltd., Mill-st., Ancoats, Manchester 4. Dismantling and removing of seven existing hydraulic lifts and supply and installation of six new 30 cwt. capacity electrically-operated goods lifts at station. *Harwich:* W. & C. French Ltd., 50, Epping New-rd., Buckhurst Hill, Essex. Repairs to outer dolphin of train ferry terminal. *Elsham:* Thomas Fletcher & Co. Ltd., Forest-rd., Mansfield, Notts. Reconstruction of portion of superstructure of Underline Bridge No. 53, between Appleby and Elsham. *Collingham:* W. & C. French Ltd., South Brink, Wisbech, Cambs. Reconstruction of piled substructure of Underline Bridge No. 63 over River Trent, between Newark (Castle) and Collingham. *Sheffield:* George Wimpey & Co. Ltd., Hammersmith-grove, Hammersmith, London, W6. Earthworks, etc., in connection with the provision of a new marshalling yard at Tinsley, Sheffield.

(GD) LONDON (British Railways).—Contracts placed by Southern Region: Improved staff accommodation at Victoria carriage servicing shed; G. E. Wallis & Sons Ltd., London, WC2. Alterations and improvements to station at Sherborne; D. Singleston & Son, Yeovil. Repairs to roofing at Waterloo Station; Macartney & Sons, London, SW9. Resurfacing and surface dressing of roads, footpaths and platforms at Ashford district; Johnson Bros. (Aylesford) Ltd., Tonbridge, Kent. Resurfacing and surface dressing of roads at London (Western) District; W. & J. Glossop Ltd., London, SW18. New footbridge at Gladstone-rd. at Ashford; John Mowlem & Co. Ltd., London, SW1. Provision of lighting to platforms at Weymouth Harbour; Rashleigh Phipps & Co. Ltd., London, W8. New telephone exchange at Waterloo; F. G. Minter Ltd., London, SW1.

(GD) LONDON (British Railways).—Contracts placed by Western Region: Erection of a new staff hostel at Wharfdale-rd., Tyseley; Smith Bros. Construction Ltd., Vulcan Mills, Stratford-rd., Birmingham 11. Construction of an automatic telephone exchange at Maidenhead; E. H. & L. Wells, Alma-rd., Windsor, Berks. Provision and installation of telephone train control equipment at Paddington, Bristol and Cardiff; Communication Systems Ltd., Norfolk House, Norfolk-st., London, WC2. Alterations to be carried out to the station buildings at Barry Docks Station; Vickery Bros. (Barry) Ltd., Beryl-rd., Barry, Glam. Provision and installation of an automatic telephone exchange at Reading General Station; Automatic Telephone & Electric Co. Ltd., Arundel-st., London, WC2. Painting eight bridges on the Penley branch; Industrial Painting Contractors (Winchester) Ltd., Stockbridge-rd., Winchester, Hants. Supply and erection of a building to house facilities for vacuum brake cylinder repairs and testing, carriage & wagon works, Swindon; Boulton & Paul Ltd., Riverside Works, Norwich, Norfolk.

(GD) LONDON (Metropolitan Police).—Recent contract placed: Alterations to drainage at Charles Rowan Hse., Wilmington-sq., WC1; Websters (Builders) Ltd., £4,200. Erection of 4 houses and a police office at Overbury-cres., New Addington, Croydon, Surrey; Robt. Hart & Sons Ltd., £18,245.

(GD) LONDON (MoW).—Contracts placed by Ministry of Works for week ended April 22: *Hertfordshire:* Erection of new Head Post Office at Hemel Hempstead; E. S. Gates Ltd., Chalfont Station-rd., Amersham, Buckinghamshire. *Lanarkshire:* Domestic cleaning at Joint Office building, 187 George-st., Glasgow; British Canadian Maintenance Co., 132 Renfield-st., Glasgow, C2. *London:* Installation of Fuel Storage Tanks at the British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Museum; W. G. Cannon & Sons Ltd., 38A St. George's-drive, Westminster, SW1. Formation of branch Post Office at St. Martin's-lane, WC2; E. J. Lacy & Co. Ltd., Steele-rd., NW10. *Yorkshire:* Erection of automatic telephone exchange at Reid-ter., Guisborough; H. Peacock (Guisborough) Ltd., 131 Westgate, Guisborough.

(GD) LONDON (War Dept.).—Works contracts placed during week ended April 21: *Devon:* Building at Plymouth, Richard Costain (Construction) Ltd., Plymouth. *Dorset:* Building at Bovington; Arthur Parsons & Sons, Dorchester. *Gloucestershire:* Miscellaneous works at Ashchurch; John Simmonds (Gloucester) Ltd.; Gloucester. *Hampshire:* Painting at Aldershot; T. H. Kenyon & Sons Ltd., London, W9. *Hampshire:* Protective piling at Portsmouth; Wall Brothers (Civil Engineers) Ltd., Newport, IoW. *London, SW1:* Painting and decorating; T. H. Kenyon & Sons Ltd., London, W9. *Monmouthshire:* Building at Chepstow; Geo. Harris & Co., Hereford. *Shropshire:* Roadwork at Donnington; L. S. Podmore & Co. Ltd., Walsall. *Staffordshire:* Building at Marchington; Gee, Walker & Slater Ltd., Derby. *Surrey:* Ground clearance at Camberley; S. M. S. (Airfields) Ltd., Bournemouth.

MAIDENHEAD.—Erection of Cox Green Prim. Sch. Architect: J. T. Castle, Berkshire County Council, Wilton House, Parkside-rd., Reading. J. M. Jones & Sons Ltd., Maidenhead. £73,000.

MANCHESTER.—Offices and warehouse at Stocks-st. for Byrom Properties Ltd. (A) B. B. Bender, Manchester.

NEWCASTLE-ON-TYNE.—Factory additions in Wincomblie-rd. for T. B. Pearson & Sons, engineers: (A) Direct labour. Offices, etc., at Elizabeth-st. for General Poster and Publicity Co. Ltd., 139 New Bridge-st., Newcastle. (A) J. G. Bennison & Son, Beaconsfield-rd., Gateshead.

NOTTINGHAM. — Following for TC: Erection of 11-storey block of 45 maisonettes at Boden-st. (A) Rostance (Builders) Ltd. New pavilion at Clifton playing fields. (A) W. J. Simms, Sons & Cooke Ltd., £33,296. Extensions to jun. infants' sch. at Claremont. (A) W. H. Herries Ltd., £57,634.

OXFORD.—Stage 1, comprising foundations and drainage, of proposed St. Catherine's College for Oxford University. (A) Marshall Andrew & Co. Ltd., London.

PADIHAM.—Erection of 14 houses and 6 bungalows for UDC. (A) Gregory Housing Ltd., Worthing.

PREESALL (Lancs.). — Erection of St. Aidan's Church of England sec. sch. at Cartgate. (A) Fleet Builders Ltd., Thornton, £100,000.

REDCAR.—Erection of 492 dwellings and 321 garages and ancillary works on Lakes neighbourhood site for TC. (A) T. G. Construction Co. Ltd., Wolverhampton, £949,972.

ROTHERHAM.—Erection of 305 garages at Kimberworth Park estate for BC. (A) Frank Haslam, Milan & Co. Ltd., Doncaster.

SALISBURY.—Erection of 20 maisonettes at Bishopdown estate for TC. (A) John Prichard Ltd., Salisbury, £46,731.

SCOTLAND.—The following contracts have been placed by the SSHA: Erection of 48 three-storey flats at Leven-rd., Kennoway. All trades. (A) R. Terras, East Wemyss. Erection of 223 traditional dwellings at Murraysgate, Whitburn. All trades. (A) J. Smart & Co. (Contrs.) Ltd., Edinburgh 2. Erection of 204 trad. dwellings at Gairloch, Airdrie. All trades. (A) Atholl Houses Ltd., Glasgow C3.

SHREWSBURY.—The finance committee of the Birmingham Regional Hospital Bd. have accepted the £121,028 tender of the T.G. Construction Co. Ltd., for the erection of a new nurses' home and training sch. at Shelton Hospital, Shrewsbury.

SILSDEN.—Erection of 12 flats/10 houses for UDC. (A) Gregory Housing Ltd., Worthing.

SOUTH SHIELDS.—Extensions to King George Road and construction of roundabout for T.C. (A) Direct labour, £30,000.

SPENNYMOOR (Co. Durham).—Erection of new area offices at Spennymoor for Durham Divisional Coal Board, Team Valley Trading Estate, Gateshead. Plans by Bd.'s Architects' Dept. (A) Holland & Hannen and Cubitts Ltd., Team Valley Trading estate, Gateshead.

STOCKPORT.—Extensions to Dialstone sec. sch. for BC. (A) J. J. Oakes & Sons Ltd., £73,355.

SWADLINCOTE UDC.—Fixed price tenders for 32 flats at Midland-rd. E&S. R. Guilford Ltd., Ascot Drive, Derby. £64,660.

SWINDON.—Conversion of former Wesley Church as museum for BC. (A) Wm. Croft & Co. Ltd., 176a Manchester-rd., Swindon.

WATFORD.—New factory and offices at Bushey Mill-la. for R. & J. Beck Ltd. (A) J. Jarvis & Sons Ltd., Vauxhall Bridge-rd., London, SW1.

WANDSWORTH.—Design and construction of piled foundation and superstructure of a five-storey office block at Broomhill-rd. for Redifon Ltd. Architects: Austin Vernon & Ptnrs. (A) Modular Concrete Co. Ltd., SW16, £22,600 (main contr.: W. J. Mitchell & Son Ltd.).

WESTMINSTER. — Erection of seven-storey block of 15 flats at Hill-st., W1, for Audley Properties Ltd. Architect: P. Moro. (A) Leslie & Co. Ltd., £¾m.

WINCHESTER.—New offices at Staple Gardens for SCATS Ltd. (A) Henry Boot & Sons (Southern) Ltd., London.


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*Chartered Accountants.*

April 13th, 1961

**1, Lincoln's Inn Fields, London, W.C.2**

The effective membership at the 31st December, 1960, was

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# OFFICIAL ANNOUNCEMENTS

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**ATTENTION ADVERTISERS**

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

## CONTRACTS

### DAGENHAM
BOROUGH.

RAINHAM-ROAD/CADIZ-ROAD.
TENDERS are invited for the ERECTION of 18 TWO-STOREY FLATS AND 4 GARAGES on the above site.

Drawings and General Conditions of Contract may be inspected during normal office hours.

Forms of tender and Bills of Quantities may be obtained from the Borough Surveyor on or after 3rd MAY on payment of £2 2s. refundable on receipt of a bona fide Tender.

Closing date for receipt of Tenders—NOON, THURSDAY, 25th MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

### PRESTON
COUNTY BOROUGH.

HARRIS COLLEGE OF FURTHER EDUCATION—ADAPTATIONS.
Applications are invited from Contractors wishing to TENDER for the ADAPTATION WORK AT THE EXISTING BUILDING OF THE HARRIS COLLEGE in Corporation-street, Preston.

The value of the work is estimated at £190,000 and the work is scheduled to start in August, 1961, and to be completed by June, 1963.

Selected firms will be given a period of four weeks in which to submit their Tender.

Applications to be received by the undersigned not later than MONDAY, the 8th MAY, 1961.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston.

### OXFORD CITY.

MINOR REPAIRS AND EXTERNAL PAINTING OR INTERNAL REDECORATION OF SCHOOL PREMISES.
TENDERS will be invited for the above-mentioned work, full details of which may be seen on application to the City Architect and Planning Officer, Town Hall, Oxford.

Full particulars and specification will be forwarded on request and tenders must be submitted to reach the undersigned not later than first post on the 19th MAY, 1961.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.
17th April, 1961.

### DURHAM
COUNTY COUNCIL.

TENDERS invited :
REGISTRAR'S OFFICE, JARROW—ERECTION.

Application for further details to County Architect, South-street, Durham, not later than 17th MAY, 1961.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

### SURREY
COUNTY COUNCIL.

TENDERS FOR PROPOSED THEATRE WORKSHOP AT WIMBLEDON SCHOOL OF ART, MERTON HALL-ROAD.
The work consists of a DETACHED STEEL-FRAMED BUILDING, 75 ft. x 48 ft. on plan, with GLAZED-BLOCK WALLING AND FELTED ROOF.

Contractors wishing to tender for the above scheme should apply to the County Architect, County Hall, Kingston-upon-Thames, by 11th MAY, 1961.

### STAINES
URBAN DISTRICT COUNCIL.

PROPOSED SPORTS PAVILION, LONG-LANE, STANWELL.
TENDERS are invited for the CONSTRUCTION OF A SPORTS PAVILION, Long-lane, Stanwell.

Drawings, Specification and form of Tender may be obtained on application to the Engineer and Surveyor, Shortwood House, 240 London-road, Staines, Middlesex, on payment of a deposit of £2 2s., which will be returned on receipt of a bona fide tender, not subsequently withdrawn.

Drawings and specifications will be available on the 8th MAY, 1961.

Tenders on the prescribed form in the endorsed envelope provided, must be delivered at the office of the undersigned not later than 5 p.m. on MONDAY, 29th MAY, 1961.

The Council does not bind itself to accept the lowest or any tender.

F. ENTWISTLE,
Clerk of the Council.

"Elmsleigh,"
73 High-street,
Staines.

### HARROW
BOROUGH.

HOUSING CONTRACTS—LIST OF BUILDING CONTRACTORS.
The Corporation invite applications from Building Contractors for inclusion in selected lists of Contractors from whom TENDERS will be invited during the period ending 31st May, 1962, for the ERECTION OF HOUSES, FLATS AND ANCILLARY WORKS. The lists will be for contracts of the following values :
List (A) over £100,000.
List (B) between £30,000 and £100,000.
List (C) between £1,000 and £30,000.

Application for inclusion in any, or all, of the selected lists, which should be clearly stated, must be received by me not later than NOON on 19th MAY, 1961, and should be accompanied by full particulars of works of the particular category recently carried out, preferably for Local Authorities, together with the name and address of the Architect or Authority. Details of labour resources must also be given.

Applicants are asked to confirm in writing that, in Tendering for building work, they will not follow the restrictive practices criticised by the Monopolies Commission.

When the lists of Contractors have been compiled, the Corporation will invite Tenders, within the amounts stated and during the above-mentioned period, from Contractors whose names appear upon the lists, subject to the lists being reviewed and names added or removed, at the discretion of the Corporation.

The Corporation do not necessarily bind themselves to include any applicant on the lists.

DAVID PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middlesex.
21st April, 1961.

### WATFORD
BOROUGH.

ELDERLY PERSONS' FLATS.
TENDERS are invited for the CONSTRUCTION OF 19 BEDSITTING ROOM FLATS AND ONE TWO-BEDROOM FLAT IN ONE THREE-STOREY BLOCK at the junction of Hagden-lane and Brightwell-road, Watford.

Applications for documents must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on MONDAY, 29th MAY, 1961.

Contract documents will be forwarded as soon as possible after that date.

No Tender will be considered unless upon the official form which must be sent to the undersigned in the envelope provided for the purpose, by 2 p.m. on WEDNESDAY, 5th JULY, 1961.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.
April, 1961.

### SOUTHPORT
COUNTY BOROUGH.

The Council invite TENDERS for the ERECTION OF NEW CLASSROOM AND LABORATORY ACCOMMODATION OVER EXISTING WORKSHOPS at Southport Technical College.

Bills of Quantities may be obtained from the Borough Architect and Town Planning Officer's Department, 99-105 Lord-street, Southport, on payment of Two Guineas per set, which sum will be refunded on receipt of a bona fide Tender.

Tenders are to be delivered to the undersigned by 25th MAY, 1961.

R. EDGAR PERRINS,
Town Clerk.

Town Hall,
Southport.

### ISLE OF ELY
COUNTY COUNCIL.

WITCHFORD SECONDARY MODERN SCHOOL BUILDING TO COMPLETE NEW SCHOOL.
Building Contractors wishing to TENDER for the ABOVE WORK are invited to submit applications to the County Architect, County Hall, March, Cambs., by not later than WEDNESDAY, 17th MAY, 1961, enclosing a cheque for £2 2s. made payable to the Isle of Ely County Council as deposit, which will be repayable on receipt of a bona fide Tender.

Tender documents will be available in June and the last date for receipt of Tenders is WEDNESDAY, 5th JULY, 1961.

Brief particulars of the work are as follows :—

New buildings with floor area of approximately 22,160 sq. ft. located on existing school site in Common-road, comprising THREE-STOREY CLASSROOM BLOCK TOGETHER WITH SINGLE-STOREY WORKSHOP AND LABORATORY ACCOMMODATION, CLOAKROOMS, ETC., DRAINAGE AND SITE WORKS, INCLUDING DEMOLITION OF EXISTING BUILDINGS.

Construction : three-storey block precast concrete frame (by Specialist) with brick and other infill panels ; single-storey brick crosswall construction ; all with proprietary timber roof decking.

R. F. G. THURLOW,
Clerk of the County Council.

### CARDIFF CITY.

CITY ARCHITECT'S DEPARTMENT.
324 DWELLINGS, CAERAU-LANE, ELY.
Fixed price TENDERS are invited for the ERECTION OF 324 DWELLINGS in five contracts at Caerau-lane, Ely, Cardiff as follows :—

*Group No. 1.* 75 DWELLINGS comprising THREE- AND FOUR-BEDROOM MAISONETTES, THREE-BEDROOM HOUSES and ONE-BEDROOM FLATS.

*Group No. 2.* 61 DWELLINGS comprising THREE-BEDROOM HOUSES AND ONE-BEDROOM FLATS.

*Group No. 3.* 92 DWELLINGS and 54 BRICK GARAGES comprising THREE- and FOUR-BEDROOM MAISONETTES AND THREE-BEDROOM HOUSES.

*Group No. 4.* 21 DWELLINGS comprising THREE-BEDROOM HOUSES AND ONE-BEDROOM FLATS.

*Group No. 5.* 75 DWELLINGS comprising THREE- and FOUR-BEDROOM MAISONETTES, THREE-BEDROOM HOUSES AND ONE-BEDROOM FLATS, AND 27 GARAGES.

Contractors may Tender for one or more contracts but each contract must be Tendered for separately.

Drawings, Specifications and Conditions of Contract may be inspected at the City Architect's Department, Municipal Offices, Greyfriars-road, Cardiff.

Specification, Bills of Quantities and Form of Tender may be obtained from the City Architect upon payment of a deposit of £2 2s. 0d. in respect of each contract, which will be refunded upon receipt of a bona fide Tender which is not subsequently withdrawn or the return of all documents before the closing date for the receipt of Tenders.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for ..... Dwellings at ....." as the case may be, addressed to the *Undersigned* at the City Hall, Cardiff and sent by Registered Post or Recorded Delivery so as to be received not later than the 31st MAY, 1961.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

Completed Bills of Quantities are not to be submitted with the Tender, but must be sent, completed in ink, so as to be in the hands of the City Architect WITHIN THREE DAYS after written request following the opening of the Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
April, 1961.

### BOOTLE
COUNTY BOROUGH.

PROPOSED PUBLIC CONVENIENCE.
TENDERS invited for ERECTION OF LADIES' PUBLIC CONVENIENCE, Stanley-road, Bootle.

Documents obtainable from Borough Surveyor, Town Hall, Bootle 20, Lancs.

Tenders returnable 10 a.m. 24th MAY, 1961.

HAROLD PARTINGTON,
Town Clerk.

Town Hall,
Bootle 20,
Lancs.

### BIRMINGHAM CITY.

PARKS COMMITTEE.
OAKLANDS RECREATION GROUND, COVENTRY-ROAD, YARDLEY, BIRMINGHAM, 25.
MESSROOM, FIRST AID AND STORE.
TENDERS are invited for the ERECTION OF A TIMBER MESSROOM, FIRST AID ROOM AND STORE AT OAKLANDS RECREATION GROUND, Coventry-road, Yardley, Birmingham, 25.

The Form of Tender and a copy of the Specification and drawings may be obtained upon application to the General Manager, Parks Department, Civic Centre, Broad-street, Birmingham, 1, on payment of a deposit of £2 2s. 0d. which will be returned upon receipt of a bona fide Tender.

Applications must be received not later than Monday, 15th May, 1961.

A copy of the Corporation's General Conditions (which include the Corporation's usual fair wages and Conditions of Labour Clauses) may be inspected at the Parks Department, Room 435, Civic Centre, during usual office hours.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office, Room B33, Council House, Birmingham, 1, not later than 12 NOON on MONDAY, 5th JUNE, 1961, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender received.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

### STEVENAGE
URBAN DISTRICT COUNCIL.

HAYCROFT-ROAD HOUSE IMPROVEMENT SCHEME—PHASE 1.
CONTRACTS A AND B—80 HOUSES.
TENDERS on a FIXED PRICE BASIS are invited from experienced Contractors for MODERNISING AND IMPROVING PRE-WAR COUNCIL HOUSES in the Haycroft-road area, Stevenage. The Contracts are as follows :—

(1) Contract (A), 30 Houses—COMPLETE MODERNISATION WITH THE CONVERSION OF A COAL BARN AND LARDER INTO A KITCHEN, THE INSTALLATION OF A HOT WATER SUPPLY, THE PROVISION OF TILED SURROUND FIREPLACE, TOGETHER WITH GENERAL REPAIR AND DECORATIVE WORK.

(2) Contract (B), 50 Houses—IMPROVING HOUSES, ALREADY PARTLY MODERNISED, as Contract A above but excluding the conversion of the coal barn and larder into a kitchen.

Plans, Bills of Quantities and Form of Tender may be obtained from the offices of the Engineer and Surveyor, Orchard-road, Stevenage, on or after FRIDAY, 5th MAY, 1961, and shall be returned in the envelope provided, to the undersigned not later than NOON on FRIDAY, 26th MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

E. J. BOWERS,
Clerk of the Council.

### CANTERBURY CITY.

TENDERS are invited from suitable firms for EXCAVATIONS AND PREPARATIONS FOR TECHNICAL SCHOOLS PLAYING FIELDS at Spring-lane, Canterbury. Area of site approximately 11 acres.

Tenders are to be on a "Fixed Price" basis.

Contractors wishing to tender must submit their application to the City Architect, with a deposit of two guineas, which will be returnable on receipt of a bona fide tender.

Bills of Quantities and Form of Tender will be available on 12th MAY, 1961. Tenders to be delivered in the endorsed envelope provided not later than MONDAY, 29th MAY, 1961.

J. L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

*Amended Advertisement.*

### GRAVESEND
BOROUGH.

TENDERS, returnable by the 31st MAY, 1961, are invited for IMPROVEMENTS TO 610 HOUSES on three Estates, comprising REMOVAL OF KITCHENERS, INSTALLATION OF TILED SURROUNDS, ETC., AND CONVERSION OF HOT WATER SYSTEMS.

Tender forms and documents available on application from the Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend.

F. W. HARRISON,
Town Clerk.

4 Woodville-terrace,
Gravesend.
April, 1961.

## SALFORD CITY.

THREE-STOREY FLATS ON SMALL SITES.

Firm price TENDERS are invited for the CONSTRUCTION OF THREE-STOREY ONE-BEDROOM FLATS as below :—

Contract No. 1: 15 FLATS, Medway-close, Salford, 5.

Contract No. 2: 18 FLATS, rear of 93 Eccles Old-road, Salford, 6.

Contractors may Tender for one or both contracts but each contract must be Tendered for separately. Applicants for documents must clearly state for which scheme(s) they wish to Tender.

Conditions of Contract and Drawings may be inspected at, and Bills of Quantities and Forms of Firm Price Tender obtained from the City Engineer and Surveyor's Dept., Town Hall, Salford, 3, on payment of a deposit in respect of each contract of £2 2s. 0d., which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tender(s) on the prescribed form, sealed in the envelope(s) provided and bearing no other mark or identification, must be forwarded to the Town Clerk so as to be received not later than 10 a.m. on MONDAY, 29th MAY, 1961.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

## ALDRIDGE
URBAN DISTRICT COUNCIL.

ERECTION OF PUBLIC CONVENIENCES AT CROFT-PARADE, ALDRIDGE AND HILLINGFORD-AVENUE, PHEASEY.

TENDERS on a fixed price basis are invited for the ERECTION OF PUBLIC CONVENIENCES on sites fronting Croft-parade, Aldridge and Hillingford-avenue, Pheasey within the Urban District. Bills of Quantities may be obtained from the Engineer and Surveyor, 9 Leighswood-road, Aldridge, Staffs, at whose office drawings may be inspected by appointment. A deposit of two guineas will be required for each set of documents and will be refunded on receipt of a bona fide Tender.

Tenders in plain sealed envelopes endorsed "Public Conveniences, Croft-parade, Aldridge and/or Hillingford-avenue, Pheasey," should be delivered to the undersigned not later than NOON on 16th MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. G. G. NICHOLS,
Clerk of the Council.

The Council House,
Aldridge.
26th April, 1961.

## WORCESTER CITY.

STRENGTHENING OF THE GUILDHALL FLOOR.

TENDERS are invited for the above work which involves the careful PLACING OF ROLLED STEEL CHANNELS WITHIN THE EXISTING FLOOR OF THE ASSEMBLY ROOM.

Documents obtainable from City Engineer and Surveyor, 22 Bridge-street, Worcester, on deposit of two guineas (cheques payable to "Worcester Corporation") which will be refunded after receipt of a bona fide Tender and the return of Tender documents.

Tenders to be posted to the undersigned to arrive not later than 26th MAY, 1961.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

## CRAYFORD
URBAN DISTRICT COUNCIL.

GOLF CLUB HOUSE.
(Amended Advertisement.)

Building Contractors are invited to submit their names for inclusion in a selected list for the DEMOLITION OF MAYPLACE GOLF CLUB HOUSE damaged by fire and the CONSTRUCTION OF A NEW BUILDING.

Tenders will be invited on a firm price basis.

Applications, with details of recent contracts carried out for other local authorities, should be sent to the Engineer and Surveyor, Town Hall, Crayford, Kent, by 15th MAY, 1961. The Council do not bind themselves to include any applicant in the selected list.

G. B. HODGSON,
Clerk of the Council.

## LEWES
BOROUGH.

INTERNAL REDECORATION OF THE CORN EXCHANGE.

The Council propose to invite TENDERS for the INTERNAL REDECORATION OF THE CORN EXCHANGE. The building is approximately 120 ft. long by 33 ft. wide by 25 ft. average height internally.

Applications for the Form of Tender, Specification and Conditions of Contract must be submitted to the Borough Surveyor, Town Hall, Fisher-street, Lewes, Sussex, not later than FRIDAY, 12th MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. A. R. GRAY,
Town Clerk.

Town Hall,
Lewes,
Sussex.

## WILTSHIRE
COUNTY COUNCIL.

NOTICE TO BUILDING CONTRACTORS.

The County Council invites APPLICATION from contractors able to carry out building work (other than road and bridge works), who wish to be ADDED TO THE APPROVED LIST.

The list will be divided into the following classes :—

(a) Works up to £2,000;
(b) Works between £2,000 and £10,000;
(c) Works between £10,000 and £25,000;
(d) Works between £25,000 and £50,000;
(e) Works between £50,000 and £100,000;
(f) Works between £100,000 and £250,000;
(g) Works over £250,000.

Applications for inclusion on any or all of these classes must be sent together with the names of two persons to whom reference may be made to reach the undersigned not later than 13th MAY, 1961.

The Council reserve the right to place a contractor in any of the classes or to refuse to include him in any class.

Future Tenders for building work will be invited only from contractors on the approved list which will be reviewed annually.

Contractors whose names are already on the list need not re-apply.

R. P. HARRIES,
Clerk of the Council.

## TOTTENHAM
BOROUGH.

MARKFIELD ESTATE.
CONTRACT "D."
ERECTION OF 112 DWELLINGS IN 4 BLOCKS, INCLUDING ONE BLOCK 13 STOREYS HIGH.

TENDERS are invited from firms capable of undertaking the whole contract, including reinforced concrete construction. Applicants to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than FRIDAY, 12th MAY, 1961, quoting "B," together with £2 2s. deposit, refundable upon the submission of a bona fide Tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposits, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

M. LINDSAY TAYLOR,
Town Clerk.

Town Hall
Tottenham, N.15.

## SALFORD CITY.

PROPOSED TWO-BAY SUB FIRE STATION AT 443-5 BURY NEW-ROAD, SALFORD, 7.

FIRM-PRICE TENDERS are invited for the proposed TWO-BAY SUB FIRE STATION at 443-5 Bury New-road, Salford, 7.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm-Price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £3 3s., which will be returned on submission of a bona fide Firm-Price Tender not subsequently withdrawn.

Firm-Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the Town Clerk so as to be received not later than 10 a.m. on MONDAY, 29th MAY, 1961.

The Council does not bind itself to accept the lowest or any Firm-Price Tender.

## THE WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

TENDERS are invited for General Builders' Work in connection with the proposed ALTERATIONS AND ADAPTATIONS at South Elmsall Sub-Div. Police Headquarters.

Plans and Specifications are available for inspection at the office of the Divisional Architect, Bishopgarth, Westfield-road, Wakefield, to whom application should be made for tender documents.

The Contract will be governed by the R.I.B.A. Form of Agreement.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 46, County Hall, Wakefield, not later than 12 noon on FRIDAY, 26th MAY, 1961.

BERNARD KENYON,
Clerk of the County Council.

## BASILDON
URBAN DISTRICT COUNCIL.

SCHOOLS' MAINTENANCE PROGRAMME 1961/62.

The Council invite TENDERS for INTERNAL AND EXTERNAL REDECORATION OF SCHOOLS in the Urban District to be executed between 28th July and 4th September. Estimated value of work will vary from £250 to £1,800 for each school.

Experienced contractors wishing to Tender should make applications to the Engineer and Surveyor, Council Offices, 88 Town-square, Basildon, Essex, by 15th MAY enclosing a deposit of £2 2s. 0d. which will be refunded upon receipt of a bona fide Tender not subsequently withdrawn. The Council does not bind itself to accept the lowest or any other Tender.

## WANDSWORTH
METROPOLITAN BOROUGH.

FLATS AT STREATHAM.

Contractors wishing to TENDER FOR ERECTION OF 11 FLATS IN TWO 3-STOREY BLOCKS at Hopton-road should submit names to me by 10th MAY, 1961, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Mr. J. Hewitt Mitchell, A.R.I.B.A., A.I.Arb., 140 Streatham Hill, S.W.2.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

## DORKING
URBAN DISTRICT COUNCIL.

MODERNISATION OF PRE-WAR COUNCIL HOUSES.

The Council invite applications from Building Contractors to TENDER for WORKS OF MODERNISATION TO 22 DWELLINGS in Beresford-road, Dorking; the works will include some STRUCTURAL ALTERATIONS AND INSTALLATION OF HOT WATER SYSTEMS AND BATHROOMS.

This is the first contract of a series of works of modernisation which the Council contemplate will involve about 136 houses on the Marlborough and Beresford-road Estates. The Architect is Wm. Ryder, A.R.I.B.A., A.M.T.P.I., Dip. T.P. (Lond.).

Successful applicants will be notified and informed as regards Bills of Quantities, deposit, and date for receipt of Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

F. G. SUTHERLAND,
Clerk of the Council.

Council Offices,
Pipphrook,
Dorking,
Surrey.
1st May, 1961.

## WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

Separate TENDERS are invited for :—

(a) FORMATION OF LAUNDRY SORTING ROOMS.

(b) PROVISION OF DINING ROOM AND KITCHEN SERVERY.

In the Former Casual Block at Beech Towers, Staincliffe, Dewsbury.

Plans and specifications are available for inspection at the office of the Divisional Architect, Bishopgarth, Westfield-road, Wakefield.

Applications to Tender must be addressed to the Divisional Architect, Bishopgarth, Westfield-road, Wakefield.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 5, County Hall, Wakefield, not later than 12 NOON on MONDAY, 12th JUNE, 1961.

BERNARD KENYON,
Clerk of the County Council.

## WANDSWORTH
METROPOLITAN BOROUGH.

HOUSING AT STREATHAM.

Contractors wishing to TENDER for CONSTRUCTION OF 16 TWO-STOREY HOUSES at Wavertree-road, S.W.2 should submit names to me by 10th MAY, 1961 giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Mr. Michael Lyell, A.R.I.B.A., A.A.Dip.(Hons.), 16 Yeomans-row, Brompton-road, S.W.3.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth,
S.W.18.

## MIDDLESBROUGH
COUNTY BOROUGH.

PROPOSED ERECTION OF AGED PERSONS' HOSTEL, MARTON-ROAD, BEECHWOOD, MIDDLESBROUGH.

TENDERS are invited for the ERECTION OF A TWO-STOREY AGED PERSONS' HOSTEL in traditional construction for 44 residents at Marton-road, Beechwood, Middlesbrough.

Contract period twelve months.

Bills of Quantities from the Borough Engineer, Municipal Buildings, Middlesbrough; deposit £2 2s.

Tenders to the Town Clerk by MONDAY, 29th MAY, 1961.

## BRENTWOOD
U.D.C.

Builders are invited to apply to me in writing by 19th MAY to be included in a panel of contractors to TENDER for the ERECTION OF 13 HOUSES, 34 FLATS AND 22 GARAGES AT HUTTON-DRIVE, HUTTON. The approximate value of the contract is £100,000.

The contract will be controlled by Mr. J. Laurence Barnard, A.R.I.B.A., of Messrs. L. D. Tomlinson and Partners, Romford.

CLEMENT BOOTH,
Clerk of the Council.

Council Offices,
Brentwood.

## ESSEX
COUNTY COUNCIL.

RAYLEIGH—THE GLEBE COUNTY JUNIOR SCHOOL.

Contractors wishing to TENDER for the ERECTION OF THE ABOVE should forward their names, from which a panel will be chosen and provided with Bills of Quantities which are expected to be available June, 1961.

The contract will comprise the CONSTRUCTION OF FOUNDATIONS, PLUMBING, DRAINAGE, FINISHINGS, EXTERNAL WORKS, ETC. The buildings will be of PREFABRICATED TIMBER CONSTRUCTION and will be supplied and erected by a Sub-Contractor, already nominated, within the contract. The value of the whole contract is £55,000.

Applications to reach the undersigned not later than 13th MAY, 1961.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

## ALDERSHOT
BOROUGH.

SELECTIVE TENDERING.

The Aldershot Council has adopted selective Tendering and consideration is now being given to compiling lists of builders, public works and civil engineering contractors, for use in connection with WORKS OF VARYING CHARACTER AND VALUE.

Firms who are interested are invited to apply for inclusion in one or more of these lists.

Applications should be made on the forms which may be obtained from F. W. Taylor, M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., Borough Engineer and Surveyor, Town Hall, Aldershot, and returned to him not later than NOON on 29th MAY, 1961, in the endorsed envelope provided.

H. B. SALES,
Town Clerk.

Town Hall,
Aldershot.
1st May, 1961.

## PLYMOUTH CITY.

TENDERS are invited for the SUPPLY and DELIVERY OF WOODEN EXTENSION LADDERS.

Form of Tender, Conditions and specification may be obtained from the undersigned.

Sealed Tenders, in the envelope provided, must reach the Town Clerk, Pounds House, Plymouth not later than 10 a.m. on FRIDAY, 19th MAY, 1961.

J. ACKROYD,
City Engineer and Surveyor.

## BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.

Education Committee invite TENDERS for ERECTION OF SINGLE-STOREY BUILDINGS, comprising two advanced Science laboratories, kiln room and Groundsman accommodation totalling approximately 2,300 sq. ft., together with ALTERATIONS AND ADDITIONS to the lower school kitchen at Henbury Secondary School, Marissal-road, Henbury.

Contractors willing to submit Fixed Price Tenders, based on Bills of Quantities, apply to City Architect, Council House, Bristol 1, by 12th MAY.

## NORTH WEST METROPOLITAN
REGIONAL HOSPITAL BOARD.

The Board invites TENDERS for the ERECTION OF SIX TWO-BEDROOMED BUNGALOWS FOR STAFF TOGETHER WITH ROADWORKS AND OTHER SITE WORKS at Shenley Hospital, Herts.

Builders wanting to tender should apply to Messrs. Tayler & Green, F.R.I.B.A., Chartered Architects, of 10 North-parade, Lowestoft, Suffolk, within 7 days of the publication of this advertisement. Bills of Quantities will be provided and three weeks allowed for tendering.

## LINDSEY
COUNTY COUNCIL.

TENDERS are invited for the ERECTION OF PHASE II OF BERTON SECONDARY MODERN SCHOOL, Barton-on-Humber, together with External Works and Services and Sundry Alterations to the existing school. Approximate floor area of new work is 22,600 sq. ft. comprising one Three-Storey Block and several Single-Storey Blocks, all of "Thermagard" construction. Bills of Quantities may be obtained from A. Ronald Clark, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, who must receive tender by 10 a.m. on the 14th JUNE, 1961.

## WAKEFIELD CITY.

PROPOSED DEVELOPMENT OF CENTRAL NURSERY AT THORNES PARK.

TENDERS are iprited for the ERECTION OF AN EXTENSION TO THE EXISTING GARAGE BLOCK AND FOR BASES FOR TWO GREENHOUSES TOGETHER WITH ANCILLARY WORKS at the Central Nursery, Thornes Park.

Applications for Bills of Quantities must be made to the City Engineer not later than the 12th MAY, 1961. Tenders to be returned to the Town Clerk, Town Hall, Wakefield, by 5th JUNE, 1961.

# WHEN TITANS MEET...

Contractors: Messrs Holst & Co. Ltd.

To render the ground floors in their new warehouse at Grimsby, hard, dustless, waterproof and able to withstand exceptionally heavy wear and tear, British Titan Products Co. Ltd. chose Lillington's No. 1 Metallic Liquid—a veritable titan amongst proofers.

For fifty years, architects have specified Lillington's No. 1 Metallic Liquid, the scientifically prepared admixture that renders concrete completely waterproof and dustless and accelerates setting time.
No. 1 Metallic Liquid is a necessity for waterproofing cement renderings to walls and basements, in mass concrete retaining walls, foundations, flat roofs and tanks. You can rely on it to give complete satisfaction because IT IS THE ONLY PROOFER SOLD UNDER GUARANTEE.

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All our products now sold in free containers

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**Nº 1 Metallic Liquid**

**GEORGE LILLINGTON AND COMPANY LIMITED**

WILLOW LANE, MITCHAM, SURREY *Tel: MITcham 1066* *For Scotland: 42 High Street, Greenock. Tel: Greenock 20175*

*AP 364*

What makes a roof really weather-proof?

**Dinorwic** slate

What repels acids, but attracts buyers?

**Dinorwic** slate

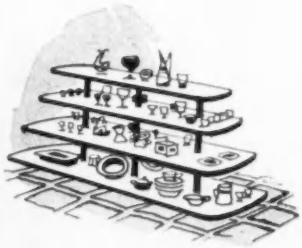
What's subtle in texture, and rugged in strength?

**Dinorwic** slate

What's the finest quality roofing slate?

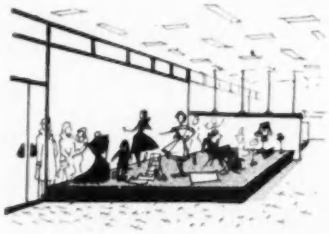
**Dinorwic** slate

*The Dinorwic Slate Quarries Company Limited*
*Port Dinorwic*
*Caernarvonshire*

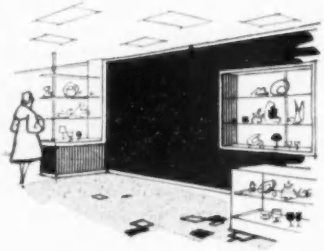


*For Glamorous Interiors...*

For every surface where a permanent, colourful, hard wearing finish is required, Perstorp is unsurpassed. The original plastic laminate, Perstorp comes from Sweden, where the highest standards of contemporary design prevail. Tough and virtually indestructible, resistant to heat and chemicals, easily cleaned, Perstorp is excellent for WALL LINING AND PANELLING, COUNTER TOPS AND VERTICALS, DISPLAY FITMENTS, WINDOW BEDS, SHELVES, RACKS, LABORATORY BENCHES, TABLES and for all other surfaces where the highest standards of decor, hygiene and durability are essential.



Available in a wide variety of patterns, in really delightful colours, some of which have been incorporated in the "House & Garden" colour range. Plain colours without extra charge. Prices are competitive. Enquiries invited.



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**PERSTORP**

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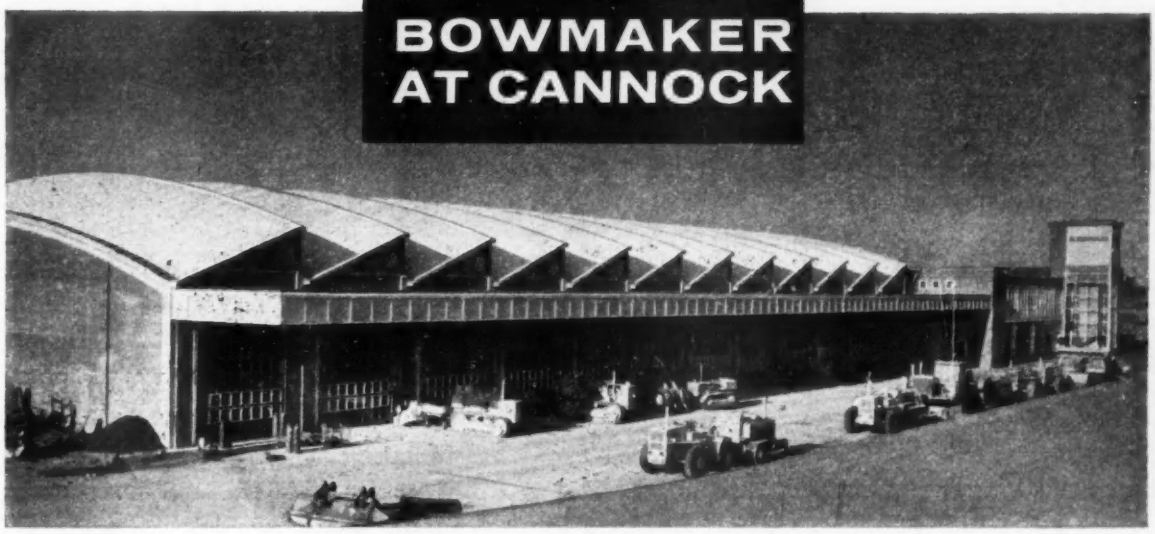
# SERVICE
a new concept
# BOWMAKER AT CANNOCK

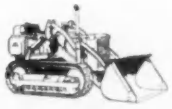


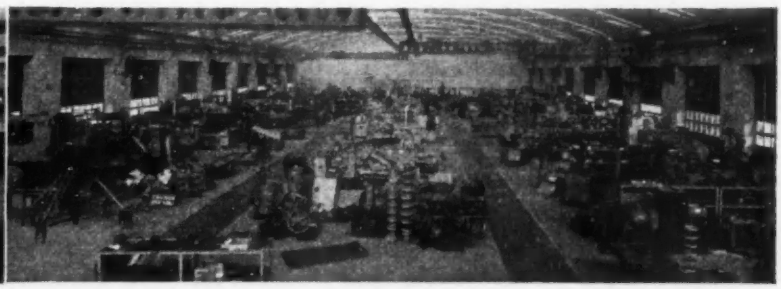
## Open big new premises to offer unparalleled service to the earthmoving industry

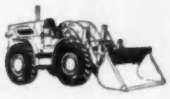
The official opening of these premises at Cannock marks the first important step in a big Bowmaker expansion programme. New premises at Exeter and Cardiff will follow shortly.

These three new branches together with existing facilities at Clay Cross and Salisbury, offer unparalleled service to the fast growing Earthmoving industry. Selling the full range of Caterpillar equipment and wide selection of used machinery, the Bowmaker organisation embraces comprehensive Parts and Service Departments, together with the most up-to-date facilities for overhauls and repairs.

Now equipped to serve the vital needs of a rapidly developing industry, Bowmaker (Plant) Limited stands ready to add further to the impetus of road building and constructional work of every kind, which will inevitably characterise the 'sixties'.







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**COLCHESTER AVENUE COLCHESTER TRADING ESTATE CARDIFF**
Tel: Card ff 35661

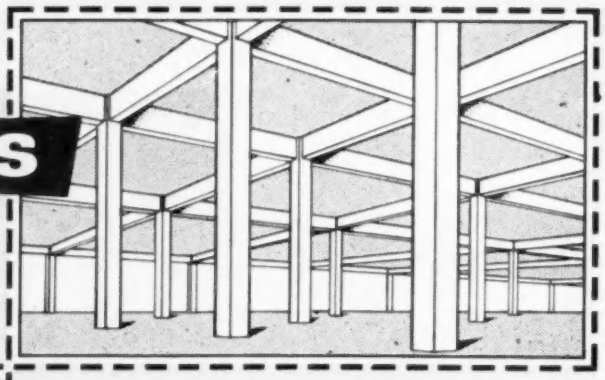
**EXHIBITION WAY, EXETER DEVON**
Tel: Exeter 66313

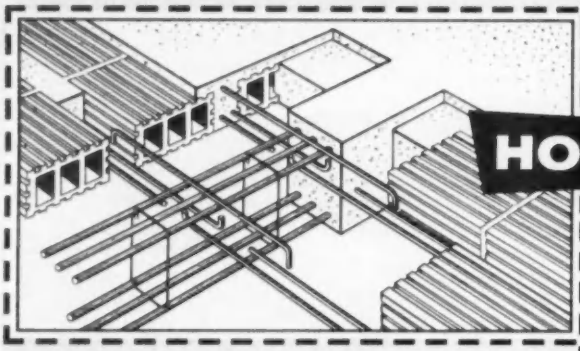
**HULSE ROAD, SALISBURY WILTSHIRE**
Tel: Salisbury 4965

**CHESTERFIELD ROAD CLAY CROSS, DERBYSHIRE**
Tel: Clay Cross 2571

# R. C. FRAMES

*and floors (in-situ construction)*





# HOLLOW-TILE FLOORS

*(in-situ construction)*

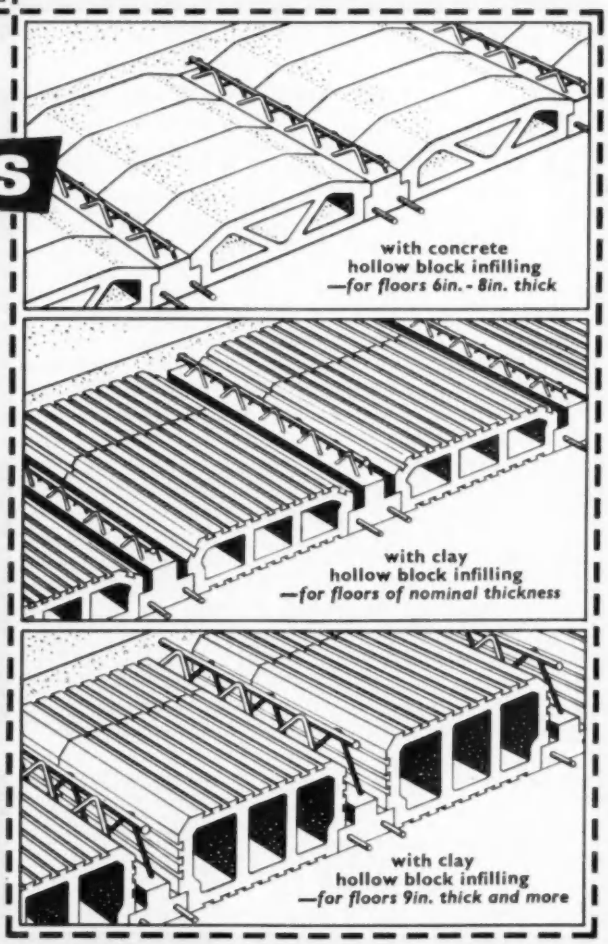
# TRIAD FLOORS

*—a composite construction floor of precast inverted stub T-beams reinforced with a welded steel lattice*

*with hollow block infilling of 3 types as illustrated—and an in-situ concrete topping*

*—requiring NO SHUTTERING.*

**All Triad Floors fixed complete or supplied for fixing by General Contractor**

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## CATERHAM AND WARLINGHAM
URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING.
TENDERS are invited for the EXTERNAL PAINTING OF 32 HOUSES AND 12 FLATS.
Copies of the specification and forms of tender can be obtained from the Engineer and Surveyor, Council Offices, Caterham.
Tenders in the endorsed envelope provided are to be returned to the undersigned not later than NOON on THURSDAY, 1st JUNE, 1961.
The Council do not bind themselves to accept the lowest or any Tender.
B. J. SMERDON
Clerk of the Council.
Council Offices
Caterham.

## BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.
Estates Committee invite FIXED PRICE TENDERS for PART DEMOLITION AND RECONSTRUCTION FOR OFFICE ACCOMMODATION OF INTERIOR of Old Treasury, Broad-street.
Contractors willing to submit Tenders based on Bills of Quantities apply to City Architect, Council House, College Green, Bristol, 1, by 15th MAY.

## CAMBRIDGE CITY.

ARBURY-ROAD ESTATE (NORTH) (CONTRACT 107).
Fixed price TENDERS are invited for the ERECTION OF 12 HOUSES AND FOUR SHOPS WITH FLATS OVER.
Applications for Tender documents, accompanied by a deposit of 2 guineas, should be made to the City Surveyor, the Guildhall, Cambridge, not later than 12th MAY, 1961. Completed Tenders are to be submitted by 12th June, 1961.
ALAN H. I. SWIFT,
Town Clerk.
The Guildhall,
Cambridge.

## SOUTHEND-ON-SEA
COUNTY BOROUGH.

PROPOSED PUBLIC CONVENIENCE, MARINE GARDENS, WESTERN ESPLANADE.
TO BUILDING CONTRACTORS, TENDERS.
Contractors desiring to TENDER for this project are invited to submit their names forthwith to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.
ARCHIBALD GLEN,
Town Clerk.

## TENTERDEN

CONSTRUCTION OF ROADS, PATHS AND SERVICES TO SMALL ESTATE OF 19 DWELLINGS ON LAND IN TENTERDEN, KENT.
Contractors wishing to TENDER for the ABOVE WORKS should submit their names to the undersigned by 10th May, 1961. From the names submitted a number of Contractors will be selected and these contractors will be sent copies of Bills of Quantities etc. on 10th May, 1961.
TENDERS are required by 24th MAY, 1961.
JOHN D. CLARKE & SON, F.R.I.B.A.,
Chartered Architects.
2 West-terrace,
Eastbourne,
Sussex.
Tel. 1498.

## BOURNEMOUTH
COUNTY BOROUGH.

TO HEATING SUB-CONTRACTORS.
TENDERS are invited on a "Fixed Price" basis for REMOVAL OF EXISTING HEATING INSTALLATION, ETC. COMPLETE, AND PROVISION OF NEW OIL FIRED BOILER AND HEATING, HOT AND COLD WATER SUPPLY INSTALLATION, for the conversion of "Beaufort House," 1 Beaufort-road, Southbourne, Bournemouth, to form Health Home.
Firms wishing to Tender for this work should make application to the Borough Architect, Room 106, Town Hall, Bournemouth, not later than 13th MAY, 1961.
Tenders to be received by me not later than 10 a.m., 27th MAY, 1961.
A. LINDSAY CLEGG,
Town Clerk.

# PUBLIC APPOINTMENTS

## AIR MINISTRY

require SENIOR TAKERS OFF in Quantities Division, London. Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities). Salaries (inner London scale) from £1,448 to £2,015. Commencing salary A.Q.E. Non-pensionable but long term with prospects of establishment and/or promotion. 5-day week, 22 days' paid leave. Applicants must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, S.W.1. Quoting J.340/OA.

## NEWCASTLE
REGIONAL HOSPITAL BOARD.

ASHINGTON HOSPITAL.
ERECTION OF NEW WARD BLOCK.
CLERK OF WORKS.
Applications are invited for the appointment of TEMPORARY CLERK OF WORKS to supervise the completion of the erection of the above building under the direction of the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.
The building consists of a four-storey Block of reinforced concrete construction with brick panel walls, and the structural frame has just been completed. Work is now proceeding on the external in-filling and internal partition and the Mechanical and Electrical Sub-Contractors are at work on the building.
Applicants for the post must possess a thorough knowledge of the building trade and have had previous experience as a Clerk of Works. They should also have had experience of specialised engineering services. Membership of the Institute of Clerks of Works or possession of the Clerks of Works Diploma of the Association of Building Technicians would be an advantage.
Work on the building is due to be completed in March, 1962, but the Board hopes to proceed with further major projects at this Hospital in the near future. The commencing salary will be within the scale of £800 x £40 (5) x £50 (1)-£1,050, according to ability and experience, and the appointment will be terminable by one month's notice on either side.
Applications, stating age, qualifications, previous experience and date when available, together with the names of three architects to whom reference may be made, should be enclosed in an envelope endorsed "Clerk of Works, Ashington Hospital," and must be forwarded to the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, by not later than 11th MAY, 1961.
Canvassing will disqualify.

## BERMONDSEY
METROPOLITAN BOROUGH.

Applications are invited from persons under 51 years of age for the following temporary appointments:—
SENIOR ASSISTANT ARCHITECT required for about two years to design a Public Baths and later to lead a small group in the preparation of working drawings and specifications. Applicants must be qualified by examination as Associates of the R.I.B.A. Salary up to £1,565 per annum according to qualifications and experience.
ASSISTANT in Architect's Section. Applicants must have passed intermediate examination of R.I.B.A. or R.I.C.S. and have experience in surveying old housing properties and preparing conversion and improvement schemes. Salary at a point in A.P.T. III or IV (£960-£1,310) plus London Weighting according to experience.
Applications for both appointments should be addressed to Borough Engineer and Surveyor, Municipal Offices, Spa-road, S.E.16.

## NEWCASTLE UPON TYNE
CITY AND COUNTY.

CITY ARCHITECT'S DEPARTMENT.
A unique opportunity exists in this office for competent ARCHITECTS to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:
J.N.C. "C": £1,560-£1,825 per annum.
J.N.C. "B": £1,410-£1,670 per annum.
A.P.T. V: £1,310-£1,480 per annum.
A.P.T. IV: £1,140-£1,300 per annum.
A.P.T. III: £960-£1,140 per annum.
A.P.T. II: £815-£960 per annum.
A.P.T. I: £645-£815 per annum.
The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotswood-road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.
Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education, Art and Industrial Design, Drama, Commerce, and Multi-storey Hostels, which will be the largest development of its kind in the country.
Further projects include: Airport Terminal; Abattoir and Fairstock Market; Vegetable Market, Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.
The department is also engaged on the New Town Hall, where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.
Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, indicating the grade for which they wish to apply.
JOHN ATKINSON,
Town Clerk.
Town Hall,
Newcastle upon Tyne, 1.

## ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
Applications are invited for the following permanent appointments (5-day week):
ENGINEERING ASSISTANT, A.P.T. I.
ENGINEERING ASSISTANT, A.P.T. II-III.
ARCHITECTURAL ASSISTANTS, A.P.T. III and A.P.T. IV.
SENIOR PLANNING ASSISTANT, A.P.T. III.
Details of appointments and application forms obtainable from the Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield.
CYRIL E. C. R. PLATTEN,
Town Clerk.
Civic Centre,
Enfield.

## SOUTHEND-ON-SEA
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.
Applications are invited for the above appointment, salary Lettered Scale C, £1,560-£1,825 per annum. There is a car mileage allowance.
Applicants should have had a wide experience in an office known for its enthusiasm for modern practice and be able to demonstrate ability to work with senior staff engaged on major projects including a new civic centre.
The appointment will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.
Housing accommodation will be available and removal expenses paid to the successful candidate.
Applications, giving full details, to be sent to the Borough Architect not later than MONDAY, 22nd MAY, 1961.
Canvassing will disqualify. Any candidate who is related to a member or officer of the Council is required to disclose the fact.
ARCHIBALD GLEN, Town Clerk.

## DUDLEY
COUNTY BOROUGH.

ASSISTANT ARCHITECTS, A.P.T. Grade V.
Vacancies exist for the above permanent appointments in the Borough Architect's Department.
Applicants should be A.R.I.B.A.
Applications, giving the names and addresses of two referees, to reach me on or before TUESDAY, 9th MAY, 1961.
P. D. WADSWORTH,
Town Clerk.
The Council House,
Dudley,
Worcs.
21st April, 1961.

## QUANTITY SURVEYORS.

Pensionable posts for men and women in:
ADMIRALTY
WAR DEPARTMENT
AIR MINISTRY
MINISTRY OF EDUCATION
MINISTRY OF HEALTH
MINISTRY OF HOUSING AND LOCAL GOVERNMENT
MINISTRY OF WORKS
DEPARTMENT OF AGRICULTURE AND FISHERIES FOR SCOTLAND.
Age at least 25 and under 35 on 1.1.61 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Quantity Surveyor). Candidates must have achieved Corporate Membership of R.I.C.S. (Quantities Section) or have passed examinations necessary for attaining such membership. National salary £916-£1,258 according to age, rising to £1,430. Promotion prospects. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form quoting S/63.

## WYCOMBE
RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN.
Applications are invited for the appointment of an ARCHITECTURAL DRAUGHTSMAN in the Engineer and Surveyor's Department at a salary in accordance with Miscellaneous Grades V and VI (£685-£825 per annum).
The appointment is temporary but it is anticipated that the current programme of work will provide employment for at least three years.
The successful applicant will be engaged principally on work connected with housing schemes for aged persons, with opportunities for survey work and a variety of general duties.
Applicants should be neat and accurate draughtsmen with experience in the preparation of working drawings and detailing from sketches and must have a good knowledge of building construction.
The Council will be prepared to assist with housing accommodation if required.
Applications endorsed "Architectural Draughtsman," should be addressed to K. E. M. Daniels, A.M.I.C.E., M.I.Mun.E., A.R.I.C.S., Engineer and Surveyor, 8-9 Easton-street, High Wycombe, and should reach him not later than 24th MAY, 1961.
L. C. RYSDALE,
Clerk of the Council.
17 High-street,
High Wycombe.

## ISLINGTON
METROPOLITAN BOROUGH

APPOINTMENT OF ARCHITECTURAL STAFF.
Applications are invited for the following appointments on the permanent staff:—
(a) 2 SENIOR ARCHITECTURAL ASSISTANTS, Grade A.P.T. V (£1,310-£1,480 p.a.);
(b) 2 ARCHITECTURAL ASSISTANTS, Grade A.P.T. III (£960-£1,140 p.a.);
All plus appropriate London Weighting.
Applicants (not more than 50 years of age) for
(a) should be Associate Members of the R.I.B.A. with wide experience including multi-storey housing;
(b) should have passed the Intermediate examination of the R.I.B.A. and be suitably experienced.
Application forms, returnable by FIRST POST on TUESDAY, 16th MAY, obtainable from Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.
H. DIXON CLARK,
Town Clerk.

## UXBRIDGE
BOROUGH.

APPOINTMENT OF BUILDING CONTRACTS CLERK.
Applications are invited for the above appointment in the architectural section of the Borough Surveyor's Department. Applicants should have had experience in the office of an architect, quantity surveyor or builder and must have a knowledge of building prices, wages and conditions of employment, the settlement of accounts, and variations and adjustments of building contracts.
The salary will be according to Clerical Grade II commencing at £710 per annum and rising by four annual increments to £815 per annum, plus London "Weighting" of up to £40 per annum.
Applications should be sent to Harold E. G. Stripp, A.M.I.C.E., Borough Surveyor, 263 High-street, Uxbridge, Middlesex, by 16th MAY, 1961, giving full personal details, particulars of employers and experience and the names of two persons from whom a reference can be obtained.
E. RONALD WEST,
Town Clerk.
265 High-street,
Uxbridge,
Middlesex.

## MERTHYR TYDFIL
COUNTY BOROUGH.

APPOINTMENT OF BUILDING INSPECTOR.
Applications are invited for the above PERMANENT APPOINTMENT in the Department of the Borough Engineer and Surveyor at a salary in accordance with Grade A.P.T. III (£960-£1,140).
Applicants must hold the Building Inspector's Certificate of the Institution of Municipal Engineers or equivalent, have a sound knowledge of building construction, be fully experienced in the examination of plans in connection with the Building Bye-Laws, Public Health Acts and general building regulations, and in the supervision of building operations and the treatment of dangerous structures.
Housing accommodation will be provided as soon as possible, if required.
The appointment will be subject to the Local Government Superannuation Acts and to the passing of a medical examination. The appointment will be terminable by one month's notice on either side.
Applications stating age, past and present appointments, qualifications and experience together with copies of three recent testimonials should be delivered to the undersigned not later than the 18th day of MAY, 1961.
Canvassing in any form will disqualify.
T. S. EVANS,
Town Clerk.
Town Hall,
Merthyr Tydfil.
20th April, 1961.

## POOLE
BOROUGH.

Applications are invited for a TOWN PLANNING ASSISTANT on Grade A.P.T. III or A.P.T. II, according to experience and qualifications. Apart from the duties normally connected with development control in an expanding town, there is a Comprehensive Development Scheme.
Application forms and full particulars from Borough Architect, Municipal Buildings, Poole, Dorset, to be returned to me by MONDAY, 15th MAY, 1961.
J. G. HILLIER,
Town Clerk.

## LINDSEY
COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.
BRIDGE ASSISTANT required for established post A.P.T. III/IV (£960-£1,310 per annum). Applicants must be fully qualified, and have an interest in structural design and be able to apply their knowledge to the construction of moderate sized bridgeworks. This appointment offers good experience on all types of bridges and associated works.
Local authority experience not essential.
N.J.C. Service Conditions apply. 5-day week.
Applications must be received by 19th MAY, 1961, on forms obtainable from the County Surveyor, County Offices, Lincoln.

# APPOINTMENT OF ARCHITECTS

## LEEDS REGIONAL HOSPITAL BOARD

*(Regional Architect—P. B. Nash, A.R.I.B.A.)*

In order to deal with a large capital programme spread over the next 20 years the Regional Architect's Department has been expanded to carry out a proportion of this work. The work offers scope to architects with initiative and particularly those with an appreciation of contemporary architecture. The work to be carried out includes complete new hospitals as well as many associated buildings of wide variety.

*Applications are invited for the under-mentioned appointments:*

### (a) Senior Assistant Architects—

**Salary: £1,300 x 60(5)—£1,600.**

Candidates must possess the ability to handle contracts valued at £100,000 or more and experience of contemporary design is essential.

### (b) Assistant Architects—

**Salary: £905 x 35(1) x 45(6) x 50(2)—£1,310.**

**Candidates for the above appointments must be registered architects and associate members of the R.I.B.A.**

*(Qualified architects awaiting registration may be appointed as Architectural Assistants at a salary of £865 per annum.)*

### (c) Architectural Assistants—

**Salary: £625 x 30(8) x 35(1)—£900.**

Candidates must have passed the Intermediate Examination of the R.I.B.A.

***Applications stating age, qualifications, previous experience and the names of two referees to the Secretary, Park Parade, Harrogate by 19th May, 1961.***

## WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary within A.P.T. Grade III (£960-£1,140 per annum).

Applicants must have a good experience in Architectural design and construction, and preference will be given to those who have passed the intermediate examination of the Royal Institute of British Architects.

Applications must state age, qualifications, previous appointments and details of experience, together with the names and addresses of two referees.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the passing of a medical examination, and will be terminated by one month's notice on either side.

Housing accommodation will be made available, if required, and reasonable removal expenses will be paid.

The District is developing rapidly and offers exceptional experience.

Applications for the appointment must reach the undersigned by not later than FRIDAY, 12th MAY, 1961.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

## HUYTON-WITH-ROBY
URBAN DISTRICT COUNCIL.
(Population—63,000.)

Applications are invited for the appointment of a CHIEF ASSISTANT ARCHITECT at a salary in accordance with N.J.C.-A.P.T. V, £1,310 to £1,480.

Candidates must be Associates of the Royal Institute of British Architects. They should have considerable experience in the design of public buildings and handling technical administration.

Housing accommodation will be provided if required.

Applications, stating age, present position, salary and date of appointment, details of experience and previous appointments, with dates, together with names and addresses of two referees, to reach R. T. Chappelle, A.R.I.B.A., Architect and Housing Director, "Grasscroft," Archway Road, Huyton, by WEDNESDAY, 24th MAY, 1961.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby-road,
Huyton.

## HESTON AND ISLEWORTH
BOROUGH.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of a SENIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary in accordance with A.P.T. Grade IV (£1,140-£1,310, plus London Weighting).

Applicants must have had good experience in architectural design and building work under construction, and, other things being equal, preference will be given to applicants who have passed the examination for Associate R.I.B.A. or hold a University Degree or Diploma in architecture accepted by that Institute.

The Council is unable to assist the successful candidate with housing accommodation.

Applications are to be submitted by 22nd MAY, 1961, on forms to be obtained from and returned to the Borough Engineer and Surveyor, 88 Lampton-road, Hounslow.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

## HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.
TECHNICAL ASSISTANT (BUILDING) (TWO POSTS)
A.P.T. II (£815-£960) or
A.P.T. III (£960-£1,140).

Applications are invited for the abovementioned permanent appointments in the Architectural Section of the Department. One post is in A.P.T. II, the other either A.P.T. II or III. Appropriate London Weighting allowance is payable, and grading and commencing salary will be according to training, qualifications and experience.

Duties will be mainly concerned with specifying and supervising works of repairs, maintenance and improvement to housing estates and public buildings, and with conversions.

Applicants should be good draughtsmen and preference will be given to candidates who hold the Ordinary or Higher National Certificate in Building or who have passed the First or Intermediate Examination of the R.I.C.S.

Staff canteen; alternate Saturdays; post-entry educational training facilities. Electric train service to Hackney Downs.

Application forms obtainable from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 12th MAY, 1961.

## BURY
COUNTY BOROUGH.

Applications are invited for the following permanent appointments:—

(a) SENIOR ASSISTANT PLANNING OFFICERS (two), A.P.T. IV (£1,140-£1,310).

(b) TOWN PLANNING DRAUGHTSMAN, Misc. III (£555-£625).

(c) BUILDING INSPECTOR, A.P.T. II (£815-£960).

(d) BUILDING INSPECTOR, A.P.T. I (£645-£815).

(e) BUILDING CLERK OF WORKS, Misc. V (£685-£760).

The commencing salary will be fixed according to qualifications and experience.

Applicants for appointment (a) should be experienced in either Development Control or Redevelopment and Research projects, and should be professionally qualified.

Applicants for appointment (b) should have had experience in drawing office procedure and preferably in a Town Planning Office.

Applicants for appointment (c) must be suitably qualified and have a thorough knowledge of modern building construction, experience in the examination of plans deposited under Building By-laws and Public Health Acts and inspection of building work during construction.

Applicants for appointment (d) must be suitably qualified and have a thorough knowledge of building construction, inspection of work in progress and the preparation of specifications for minor works.

Applicants for appointment (e) must have a thorough knowledge of the painting trade and be competent to prepare painting specifications and supervise minor general building works.

Consideration will be given to the provision of housing accommodation.

Applications, stating age, qualifications, experience, present and previous appointments and salary, together with the names of two referees, must reach me by 23rd MAY, 1961.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
27th April, 1961.

## SHEFFIELD CITY.

CITY ARCHITECT'S DEPARTMENT.

Enthusiastic and imaginative ARCHITECTS possessing drive and determination are invited to apply for the following posts on the permanent staff of the City Architect, Mr. J. L. Womersley.

(a) SENIOR ASSISTANT ARCHITECTS.
Grade A.P.T. IV (£1,140-£1,310).

(b) ASSISTANT ARCHITECTS.
Grade A.P.T. III-IV (£960-£1,310).

Opportunities are available for work on large scale schemes of redevelopment and new development and on challenging schemes of urban renewal.

Assistants are urgently required for the Education and General Section which is responsible for an expanding and interesting programme of large and important civic buildings, including the Town Hall Extensions, colleges, schools, libraries, art galleries, old people's and children's homes, fire and police stations, health centres and clinics.

COMMENCING SALARIES WITHIN THE ABOVE GRADES ACCORDING TO QUALIFICATIONS AND EXPERIENCE.

Applications for posts (b) will be welcomed from students completing their training this year and from young qualified architects seeking appointments offering considerable scope.

Applications stating post applied for, age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made should reach me by MONDAY, 15th MAY, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

## NORTH RIDING
COUNTY COUNCIL.

Applications are invited for TEMPORARY CLERK OF WORKS to supervise the erection of the following contracts:—

1. Malton New County Junior School.
2. Redcar new Fire and Ambulance Station.

Salary £720 x £20—£820 p.a.

Forms of application available from the County Architect, County Hall, Northallerton, and completed applications to be returned to the Clerk of the County Council by 12th MAY, 1961.

## WANSTEAD AND WOODFORD
BOROUGH COUNCIL.

CLERK OF WORKS.

A SENIOR CLERK OF WORKS required about September, 1961 to supervise erection of 122 multi-storey flats and houses in the Borough. Applicants must have a previous experience of large contracts, including high grade reinforced concrete work. Duration of appointment approximately two years.

Applications by 19th MAY, 1961 to the Council's Architects, Messrs. Tooley and Foster, Midland Bank Chambers, Buckhurst-hill, Essex, quoting names of two Architects, for whom comparable schemes have been supervised, as referees. Salary £1,350 per annum.

## SITTINGBOURNE AND MILTON
URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS (ENGINEERING).

Applications are invited from suitably experienced persons as CLERK OF WORKS (ENGINEERING). Salary within grade A.P.T. II, £815 to £960 per annum.

The duties include supervision of road and sewer works on development within the Urban District.

Applications, stating age, present and former appointments, details of experience and any diplomas or certificates held, together with the names and addresses of two persons to whom reference may be made, should be received by the undersigned not later than 10 a.m. on THURSDAY, 11th MAY, 1961.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High-street,
Sittingbourne.

## ISLINGTON
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff:—

(a) ONE TECHNICAL ASSISTANT, A.P.T. III (£960-£1,140) plus London Weighting.

(b) ONE SURVEYING ASSISTANT, A.P.T. III (£960-£1,140) plus London Weighting.

Applicants for:—

(a) and (b) should have the Intermediate examination of the Municipal Engineers or Chartered Surveyors or other appropriate qualifications, and preference will be given to applicants with a sound knowledge of the Town and Country Planning Acts and London Building Acts.

Application forms, returnable by FIRST POST on TUESDAY, 16th MAY, 1961, obtainable from Mr. C. N. Cowney, Borough Engineer and Surveyor, Town Hall, Upper-street, N.1.

H. DIXON CLARK,
Town Clerk.

## HAMMERSMITH
BOROUGH.

ARCHITECTURAL APPOINTMENTS.

ASSISTANT ARCHITECT (A.P.T. V, £1,355-£1,525 p.a.). Applicants must be A.R.I.B.A. or hold equivalent qualification.

ARCHITECTURAL ASSISTANTS (A.P.T. IV, £1,185-£1,355 p.a.). Intermediate R.I.B.A. essential. Preference will be given to applicants who have passed Part I or 2 of the R.I.B.A. final examination or have satisfactorily completed a course at a school of architecture.

DRAUGHTSMAN OR TRACER (male or female). Starting salary according to age, G.C.E. qualification and experience, between £515 and £615 p.a. at 22 and rising to £820 p.a. if suitably qualified.

The Department is engaged in varied and interesting works, including multi-storey flats in tall blocks, public buildings and depots.

Application forms for these appointments (returnable by 22nd MAY) from Town Clerk, Town Hall, Hammersmith, W.6.

## LEYTON
BOROUGH.

Non-County Borough in Essex. Population approximately 100,000.

Applications invited for post of GENERAL FOREMAN in the Direct Labour Building Section of the Borough Engineer's Department. Salary within the range of Grade A.P.T. III of the Scales of Salaries of the N.J.C. for local authorities staffs, viz. £960-£1,140 per annum plus London Weighting. 5-day week of 42 hours.

Applicants must have had previous experience of the organisation and supervision of labour in all branches of the building trade.

Details and form of application obtainable from Borough Engineer, Town Hall, Leyton, E.10, by whom completed applications must be received not later than noon on 11th MAY, 1961.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

## STEVENAGE
DEVELOPMENT CORPORATION.

Applications are invited for the post of ASSISTANT LANDSCAPE ARCHITECT in the Chief Architect's Department on New Towns' Salary Grades, A.P.T. II, £815-£960 or A.P.T. III £960-£1,140 according to experience and qualifications but candidates should have passed the Intermediate examination of the Institute of Landscape Architects.

The work entailed is of an interesting nature and includes the treatment of Radburn type housing development amongst other projects.

Housing accommodation will be available in due course in an appropriate case.

Applications, giving full details and names of two referees, to be sent to the Chief Administrative Officer, Daneshill House, Danestrete, Stevenage, Herts, not later than FRIDAY, 19th MAY, 1961.

# 'CERAGLAS' WALL CLADDING

**SPECIALLY DESIGNED & COLOURED FOR OFFICE BLOCKS, FLATS, FACTORIES, CHURCHES, CIVIC CENTRES, SHOPS, ETC.**

*Austral House, Colman Street, E.C.*
*Architects - Messrs. Gunton & Gunton.*

**'CERAGLAS' CAN BE PRODUCED IN ALMOST ALL THE COLOURS OF THE MUNSELL SYSTEM & IN A VARIETY OF EFFECTS & DESIGNS.**

***ESTIMATES & SAMPLES ON REQUEST.***

**SEE OUR 'CERAGLAS' EXHIBITS AT THE BUILDING CENTRE STORE ST., W.I.**

## THE LONDON SAND BLAST DECORATIVE GLASS WORKS LTD.

SEAGER PLACE,
BURDETT RD., E·3

TELEPHONE:
ADVANCE 1074-5

# ARCHITECT

## National Coal Board

There is a vacancy in the **Divisional Architect's Office, National Coal Board, Northern (N & C) Division, Whitley Road, Longbenton, Newcastle upon Tyne, 12** for a young architect, qualified A.R.I.B.A. or at final examination standard. Salary within scale £900 x £35—£1,250, per annum if qualified or £785 x £30—£935 (exceptionally up to £1,100) if not yet qualified.

Applications giving date of birth and full details of education, qualifications and experience to Staff Department at the above address by: **16th May, 1961.** Please quote: A/4.

## HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments in the Architectural Section:

(a) ASSISTANT ARCHITECT:
(i) A.P.T. IV (£1,140-£1,310 p.a.).
(ii) A.P.T. III-IV (£960-£1,310 p.a.).
(b) ARCHITECTURAL ASSISTANT:
(i) A.P.T. I-II (£645-£960 p.a.).
(ii) A.P.T. II (£815-£960 p.a.).
(iii) A.P.T. III (£960-£1,140 p.a.).
(c) JUNIOR ARCHITECTURAL ASSISTANT: A.P.T. I (£645-£815 p.a.).

Candidates for (a) must have passed the Final Examination of the R.I.B.A.; for (b) (except (i) must have passed the Intermediate Examination of the R.I.B.A. or its equivalent; and for (c) should be students of the R.I.B.A. or Probationers. London Weighting allowance payable in addition (£45 p.a. for A.P.T. III posts and above). Commencing salaries according to training, qualifications and experience. Modern staff canteen; alternate Saturdays; post-entry training facilities; possible 100 per cent advances for house-purchase. Application forms from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 12th MAY, 1961.

## ESSEX
COUNTY.

EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART,
Forest-road, Walthamstow, E.17.

Applications are invited for the following post in the Architecture and Building Department:

ASSISTANT LECTURER, Grade B, in Architecture, to teach second- and third-year full-time and part-time day students in the School of Architecture, which is acknowledged by the Board of Architectural Education of the R.I.B.A.

Salary within scale £700 x £27 10s.(15) x £37 10s.(1) to £1,150 per annum, plus additions for approved training and graduate qualifications if in accordance with the Burnham Further Education Report. London Allowance (additional to scale salary) £38 or £51 per annum. Increments above the scale minimum will be allowed for war/national service and previous relevant experience.

Apply by letter (no forms) to the Principal, giving details of training, qualifications and experience, together with three recent testimonials or the names and addresses of three referees.

## METROPOLITAN POLICE.

RECEIVER'S OFFICE.

Applications are invited for the following positions in connection with the design and erection of Police Housing, Police Stations, Single Men's Hostels, Cadets' Residential Training Centres and Magistrates' Courts within the Metropolitan Police District and schemes for major alterations to various Police buildings.

ASSISTANT ARCHITECTS.

Salary: £991 p.a. at age 25, rising by annual increments to £1,490 p.a. (Maximum salary on entry £1,318 p.a. at age 34 or over).

Qualifications: Must be registered Architects.

LEADING ARCHITECTURAL ASSISTANTS.

Salary: £1,048 p.a. rising by annual increments to £1,220 p.a.

Qualifications: Inter-R.I.B.A., H.N.C., or equivalent.

ARCHITECTURAL ASSISTANTS.

Salary: £658 p.a. at age 21 rising by annual increments to £1,048 p.a. (Maximum salary on entry £960 p.a. at age 28 or over.)

Qualifications: O.N.C., Inter-R.I.B.A., or equivalent.

TECHNICAL ASSISTANTS III.

Salary: £752 p.a. at age 21 rising by annual increments to £1,043 p.a. (Maximum salary on entry £939 p.a. at age 28 or over).

Qualifications: Inter-R.I.B.A./R.I.C.S. (Building) or equivalent.

J. INNES ELLIOTT, B.Arch., F.R.I.B.A.,
Chief Architect and Surveyor.

Apply to:
Chief Clerk,
Architect and Surveyor's Department,
New Scotland Yard, S.W.1.

## NEWCASTLE
REGIONAL HOSPITAL BOARD.

EXPANSION OF ARCHITECTURAL DEPARTMENT.
P. H. KNIGHTON, M.B.E., A.R.I.B.A.,
REGIONAL ARCHITECT.
ARCHITECTURAL STAFF.

The Board is at present preparing a 10-years programme containing a large number and variety of major hospital projects. Planning and building is already current on schemes costing about £15,000,000. As the programme includes also a wide range of buildings which are not peculiar to hospitals, good general experience as well as specialist experience may be gained.

Applications are invited for the following (superannuable) posts:

1. SENIOR ASSISTANT ARCHITECT (£1,300 x £60(5)-£1,600).

Open to registered architects with experience in the design and construction of major public buildings. Experience of hospital work desirable but not essential. Assistance with removal-expenses if appointee at present in a lower-graded Health Service post.

2. ASSISTANT ARCHITECT, £905 x £35(1) x £45(6) x £50(2)-£1,310).

Applicants must have passed the R.I.B.A. Final Examination. For registered architects increments can be given above the bottom of the grade in accordance with relevant practical experience.

Qualified but unregistered architects can enter the Architectural Assistant scale at a salary point of £865 per annum with a view to entering the Assistant Architect grade when registered.

3. ARCHITECTURAL ASSISTANTS (£625 x £30(8) x £35(1)-£900).

Inter R.I.B.A. and preferably some practical experience.

4. ARCHITECTURAL DRAUGHTSMEN (£475 x £25(6) x £30(2)-£685).

Three years' previous experience in an architect's drawing office and good draughtsmanship required.

Evening study facilities available at King's College of Durham University in Newcastle.

Details of training, qualifications, experience, present salary, etc., with the names of three referees, should reach the Secretary to the Board, Benfield-road, Newcastle upon Tyne 6, not later than 18th MAY, 1961. Canvassing will disqualify.

## LEICESTER CITY
EDUCATION COMMITTEE.

LEICESTER COLLEGE OF ART.
Principal:
E. E. Pullee, A.R.C.A., F.S.A.E.
SCHOOL OF ARCHITECTURE.

Applications are invited from holders of a Degree or Diploma of a recognised School of Architecture, or from Associate Members of the R.I.B.A., for a POST-GRADUATE RESEARCH FELLOWSHIP IN ARCHITECTURE tenable at the School of Architecture, Leicester College of Art, for advanced work in Architecture. The holder of the Fellowship, which is for a period of up to three years, will be paid on the Burnham Scale, Grade B.

Further details may be obtained from the Registrar, Leicester College of Art, The Newarke, Leicester.

## HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT BUILDING SURVEYOR,
A.P.T. III (£960-£1,140).

Applications are invited for this permanent appointment.

Candidates must have considerable experience in the Building Industry, including taking off builders' quantities; measuring for incentive bonus work and sub-contracts, and finalising sub-contractors' accounts.

Commencing salary according to qualifications and experience. Appropriate London Weighting allowance payable in addition. Modern staff canteen; alternate Saturdays; post-entry educational training facilities.

Electrified rail services provide good travelling facilities to and from Hackney Downs station.

Application forms, obtainable from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 12th MAY, 1961.

## NOTTINGHAM CITY.

ASSISTANT QUANTITY SURVEYOR.
GRADE II, £815-£960.

Applications are invited for the above appointment in the Quantity Surveyor's Section of the Estates and Housing Department under N.J.C. Conditions of Service.

The Department is engaged on extensive re-development works including multi-storey structures and the position will provide both scope and variety. Applicants must have had experience in taking off quantities, site measuring and preparation of interim valuations and final accounts. Preference will be given to applicants who have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors.

Applications, stating age, training and qualifications, present and previous appointments and experience, together with the names and addresses of two referees are to be sent to E. W. S. Martin, F.R.I.C.S., F.R.S.H., The Estates Surveyor and Valuer, The Guildhall, Nottingham, not later than TUESDAY, 23rd MAY, 1961.

T. J. OWEN,
Town Clerk.

## HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT
(BUILDING MAINTENANCE SECTION).
JUNIOR BUILDING SURVEYOR,
A.P.T. I (£645-£815 p.a.).

Applications are invited for this permanent appointment. Commencing salary according to training, qualifications and experience. Appropriate London Weighting Allowance payable in addition. Candidates are required to have had experience in taking off, site measuring and preparation of specifications in connection with the maintenance of housing properties and public buildings. Preference will be given to candidates possessing suitable qualifications.

Modern staff canteen; alternate Saturdays; post-entry educational training facilities. Electrified rail services provide good travelling facilities to and from Hackney Downs Station.

Application forms obtainable from the Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 12th MAY, 1961.

## PRESTON
COUNTY BOROUGH.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the post of CLERK OF WORKS for the Harris College of Further Education adaptations at a salary of £1,040 p.a. The appointment will be for the duration of the work, which is due to be completed in June, 1963.

Applicants should have had considerable experience in shoring and underpinning of existing buildings during structural alterations.

Applications stating age, present position and salary, previous positions and details of qualifications and experience, together with the names and addresses of two referees, to be received by me not later than FRIDAY, the 12th MAY, 1961.

W. E. E. LOCKLEY,
Town Clerk.

## ROTHERHAM
COUNTY BOROUGH.

ARCHITECTS.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANTS, A.P.T. III/IV (£960-£1,310).

The department has a varied and interesting programme of architectural work including schools and central redevelopment area, candidates are required to have passed Parts I and II of the R.I.B.A. final examination. The commencing salary in the grade will be according to capabilities and experience.

Applications, endorsed "Architectural Assistants," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than WEDNESDAY, 17th MAY, 1961.

Canvassing will disqualify.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.
April, 1961.

## LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
GROUP LEADER QUANTITY SURVEYOR.
N.J.C. Scale "C," (£1,560-£1,825).

Applications are invited from experienced QUANTITY SURVEYORS for the appointment of a GROUP LEADER QUANTITY SURVEYOR on the permanent staff.

Applicants should be Chartered Quantity Surveyors, and the duties of the post include the organisation of the work within the Group, which embraces all stages from Estimates to Final Accounts.

The person appointed will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 20th JUNE, 1961.

## BARROW-IN-FURNESS
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
TECHNICAL STAFF.

Applications are invited for the following posts:—

(a) PRINCIPAL ASSISTANT ARCHITECTS (2). Grade V, £1,310-£1,480.
(b) TOWN PLANNING ASSISTANT (REDEVELOPMENT). Grade IV-V, £1,140-£1,480.
(c) HEATING ENGINEER. Grade V, £1,310-£1,480.
(d) QUANTITY SURVEYOR. Grade V, £1,310-£1,480.

In each case commencing salary within the limits indicated. Housing accommodation available. Five-day week.

Full details of posts and forms of application available from Borough Engineer and Surveyor.

Closing date 26th MAY, 1961.

LAWRENCE ALLEN,
Town Clerk.

Town Hall,
Barrow-in-Furness.

## THURROCK
URBAN DISTRICT COUNCIL.

APPOINTMENT OF DEPUTY ESTATES MANAGER.

Applications are invited for the above appointment. Salary, A.P.T. III-IV: £960-£1,310 p.a. The person appointed must have had extensive experience of all aspects of housing management, control of staff, the administration of a Local Authority Housing Department, and should have passed the final examination of the Institute of Housing or other appropriate examination in Estates Management. Candidates must have had experience in the purchasing of building materials and the preparation of specifications for all types of work appertaining to maintenance. Travelling allowance on National Scale for 10 h.p. car payable. Appointment pensionable. Housing accommodation may be provided if successful candidate resides more than 20 miles from Thurrock. Application Forms (obtainable from Estates Manager) to Clerk of the Council, Council Offices, Grays, Essex, by 17th MAY, 1961. Canvassing disqualifies. Relationship with Members or Senior Officers of the Council must be disclosed.

## BOLTON
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the post of QUANTITY SURVEYOR on Grade A.P.T. III-IV. Commencing salary, according to qualifications and experience, will be within the range of £960-£1,310 per annum.

Applicants should have experience in taking-off quantities for architectural works and measuring for interim and final accounts. Post superannuable, subject to medical examination. Previous local government experience not essential.

Applications, giving age, full details of qualifications and experience, and naming two referees, should be received by me by 18th MAY.

PHILIP S. RENNISON,
Town Clerk.

## GREAT YARMOUTH
COUNTY BOROUGH.

SCHOOLS ARCHITECT'S DEPARTMENT.

Applications are invited from Associate Members of the R.I.B.A. for the appointment of MINOR WORKS ARCHITECT at a salary within A.P.T. IV, £1,140 to £1,310 per annum. A car allowance of £135 per annum is also payable.

The successful applicant will be required to take charge of the Minor Works Section.

Assistance with removal expenses may be made in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees, should reach the Schools Architect, 22 Euston-road, Great Yarmouth, by 24th MAY, 1961.

D. G. FARROW,
Chief Education Officer.

22 Euston-road,
Great Yarmouth.

## FRIERN BARNET
URBAN DISTRICT COUNCIL.

FIRST TECHNICAL ASSISTANT (BUILDING).

Applications for this permanent appointment on Grade A.P.T. V (£1,310-£1,480 plus London Weighting) are invited from persons who are Corporate Members of the Royal Institution of Chartered Surveyors (Building Sub-Division) or who possess an equivalent qualification by examination. Applicants must have had good general experience in the preparation and supervision of contracts for the erection of new houses and flats including site layouts and ground work quantities. Some experience in external design preferred but not essential.

Housing may be available if required, and a casual user car allowance (not exceeding 10 h.p. rate) will be payable.

Five-day week now being introduced.

Applications, stating age, experience, qualifications, details of present and previous appointments, and the names of two referees, to be sent to the Engineer and Surveyor, Town Hall, N.11, by 19th MAY, 1961.

R. S. CLOTHIER,
Clerk of the Council.

## HUDDERSFIELD
COUNTY BOROUGH.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Grade A.P.T. V (£1,310-£1,480);

(b) ASSISTANT ARCHITECT, Grade A.P.T. III-IV (£960-£1,310);

(c) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. II (£815-£960);

(d) TOWN PLANNING ASSISTANT, Grade A.P.T. III-IV (£960-£1,310).

Applicants for (a) and (b) must be Associate Members of the Royal Institute of British Architects.

The Department has in hand a large programme of building including the First Phase of a new Civic Centre, Technical Teachers' Training College, including Hostel, Secondary Modern and Primary Schools, Homes for Aged Persons Abattoir and Cattle Market, etc. The successful applicant for appointment (a) will be expected to take charge of some of these projects and appointment (b) offers an opportunity for a young and enthusiastic Architect to gain valuable experience.

Applicants for post (c) must be capable of working-up and assisting with taking-off and should be studying for the professional examinations of the Royal Institution of Chartered Surveyors and preferably have passed the Intermediate Examination.

Applicants for appointment (d) should have had experience in Development Plan Work and Development Control procedure and should be Members of the Town Planning Institute.

The posts are subject to the National Scheme of Conditions of Service, as adopted by the Council, and to medical examination.

Housing accommodation will be provided, if required.

Applications, with the names of two referees, should reach S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect and Planning Officer, High-street Buildings, Huddersfield, not later than 17th MAY, 1961.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.

## SHEFFIELD
REGIONAL HOSPITAL BOARD

urgently require ARCHITECTS.

PRINCIPAL ASSISTANT ARCHITECTS, £1,665-£2,035.

SENIOR ASSISTANT ARCHITECTS, £1,300-£1,600.

ASSISTANT ARCHITECTS AND SURVEYORS (BUILDING), £905-£1,310*.

ARCHITECTURAL AND SURVEYING (BUILDING) ASSISTANTS, £625-£900*.

ARCHITECTURAL DRAUGHTSMEN, £475-£685*.

And QUANTITY SURVEYORS.

SENIOR ASSISTANT QUANTITY SURVEYORS, £1,300-£1,600.

ASSISTANT QUANTITY SURVEYORS, £905-£1,310*.

QUANTITY SURVEYOR'S ASSISTANTS, £625-£900*.

* (See note below.)

To assist the Board in carrying out an expanding Capital Works programme of Hospital Building expected to cost over £50 millions during the next 10 years. It will include new and interesting projects, as well as reconstruction schemes, affording wide scope for Architects with keenness and initiative and design ability and experience.

Previous hospital experience is not essential and applications will be welcomed from newly qualified Architects and those about to qualify.

Principal, Senior, and Assistant Architects must be Registered Architects and Building Surveyors, A.R.I.C.S. (Building).

Experience in cost planning and cost control would be of advantage to candidates for the Quantity Surveyor appointments, the Senior and Assistant appointments of which require A.R.I.C.S.

Quantity Surveyor's Assistants must be Inter. A.R.I.C.S. (Section is under control of Chartered Surveyor).

* The Board has discretion to appoint above the minimum of the scale in these cases.

Newly built offices in congenial surroundings within the green belt on the outskirts of Sheffield. Five-day week. Canteen facilities available. Mileage allowances payable to approved car users. Application forms and further information obtainable from:—

The Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-road, Sheffield, 10.

Closing date 19th MAY, 1961.

## REIGATE
BOROUGH.

CLERK OF WORKS reqoired, salary £850 p.a.; casual car user's allowance. Practical knowledge of building trade, experience in setting out, levelling, supervision of erection of building and keeping site records essential.

Application forms from Borough Engineer, Town Hall, Reigate, to be returned to him, endorsed "Clerk of Works," not later than FRIDAY, the 19th MAY, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall
Reigate.
April, 1961.

## WIGAN
COUNTY BOROUGH

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of PRINCIPAL ARCHITECTURAL ASSISTANTS, on the established staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade A.P.T. IV-V (£1,140-£1,480).

There is an interesting and varied programme of work in the Department.

Housing accommodation can be offered for the successful married applicants.

The point of entry to the salary Grade will be determined by qualifications and experience.

Applications, giving name, address, age, present appointment and salary, previous appointments, and also the names of two persons to whom reference may be made, should be sent to the Borough Engineer and Surveyor, Municipal Buildings, Wigan, to be received by him by not later than 15th MAY, 1961.

ALLAN ROYLE,
Town Clerk.

Municipal Buildings,
Wigan.

## SUNDERLAND
COUNTY BOROUGH.

DEPUTY PUBLIC WORKS MANAGER.

Applications are invited for the above post on the permanent official staff at a salary of £1,916 per annum rising by three annual increments to £2,166.

The Department is responsible for all the Building and Civil Engineering activities of the Corporation carried out by Direct Labour.

A wide variety of competitive contract work is at present in hand including a new Technical College, Comprehensive School, houses, flats, etc., together with road, sewer and street lighting work; in addition the Department is responsible for maintenance work carried out to 20,000 Council dwellings, schools and all other Corporation properties and road and sewer maintenance.

Further particulars and form of application may be obtained from the Public Works Manager, Ivor House, 1 & 3 Ottoterrace, Sunderland.

Applications, suitably endorsed, to be addressed to the undersigned at the Town Hall, Sunderland, so as to reach me not later than MONDAY, 15th MAY, 1961.

CANVASSING WILL DISQUALIFY.

G. S. McINTIRE,
Town Clerk.

## GLOUCESTERSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS—"CAREER CLASS" commencing in A.P.T. IV (£1,140-£1,310 p.a.) progressing to A.P.T. V (£1,310-£1,480 p.a.) subject to satisfactory report on reaching appropriate incremental point in Grade. Applicants must be Registered Architects and Associate Members of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS—"QUALIFYING CLASS." Vacancies exist in the following Grades:—

A.P.T. I. Salary £645-£815 p.a.
A.P.T. II. Salary £815-£960 p.a.
A.P.T. III. Salary £960-£1,140 p.a.
A.P.T. IV. Salary £1,140-£1,310 p.a.

Applicants for posts in Grades I and II should have passed the Intermediate Examination of the R.I.B.A., and for Grades III and IV the full R.I.B.A. Final Examination.

N.J.C. Conditions of Service; superannuation; medical examination.

Applications stating age, present position and salary, details of previous appointments, together with the names and addresses of two persons for reference, must reach the County Architect, Shire Hall, Gloucester, by 13th MAY, 1961.

GUY H. DAVIS,
Clerk of the County Council.

## WEST ASHFORD
RURAL DISTRICT COUNCIL.

TECHNICAL ASSISTANT, A.P.T. II. Travelling Allowance. House.

The Surveyor to the Council is A.R.I.B.A., A.R.I.C.S., A.M.I.Mun.E., and the Department is responsible for a wide variety of work. Council Houses (including site works), Main S.D. Schemes, Bills of Quantities, Town and Country Planning, By-laws, Council House Maintenance, etc. The successful officer should possess an Inter. examination of one of the above Institutions, and should be eager to obtain experience in all the work of the Department.

The Area lies in a pleasant part of Kent and is close to the coast. Closing date 20th MAY.

2 Elwick-road,
Ashford, Kent. J. L. GRIGGS,
Clerk of the Council.

## HORNSEY
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT
Grade A.P.T. I-II.

Applications are invited for the ABOVE APPOINTMENT in the Architects' Section of the Borough Engineer and Surveyor's Department. Salary according to experience within Grades A.P.T. I-II (£645 to £960 plus London Weighting).

Details and application form from the Borough Engineer and Surveyor, Town Hall, The Broadway, Crouch End, London, N.8., to be returned by WEDNESDAY, the 17th MAY, 1961.

## AIR MINISTRY

Requires QUANTITY SURVEYING ASSISTANTS, Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of estimates.

Salary, which is dependent upon age, qualifications and experience, ranges from £726 (age 23) to £961 max. in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, viz:—

Technical Grade II, £961-£1,098. 123 posts.

Technical Grade I, £1,098-£1,348. 42 posts.

Technical Grade B, £1,348-£1,552. 6 posts.

Technical Grade A, £1,439-£1,697. 6 posts.

Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.

Overseas tours for which special allowances ranging at present up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. 5-day week with 18 days' paid leave a year initially.

Applicants, who must be natural born British subjects, must hold O.N.C. (Building or Builders Quantities) or equivalent, and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage. Forms from Manager (P.E.2), Ministry of Labour, Professional & Executive Register, Atlantic House, Farringdon-street, London, E.C.4. Candidates selected will be interviewed in Air Ministry, London, and certain expenses reimbursed. Only applicants selected for interview will be advised.

## WEST SUFFOLK
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT within Grade A.P.T. IV-V (£1,140-£1,480 per annum).

Applicants must be qualified Architects and preferably have experience in Local Authority work.

The department offers varied and interesting experience on Educational, Police and Health programmes.

N.J.C. Service Conditions; post pensionable; medical examination.

A five-day week is in operation; housing accommodation may be made available.

Application forms obtainable from the County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

## CHELSEA
BOROUGH.

BUILDING SURVEYOR
(A.P.T. III-IV), £960 to £1,310 plus £45 p.a. London "Weighting".

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department. Applicants must be A.R.I.C.S. (Building) and have had good general experience. Council operates 5-day week. Forms of application from the Borough Engineer and Surveyor, Town Hall, King's-road, S.W.3, to be returned not later than 19th MAY.

## CHESHIRE

COUNTY ARCHITECT'S DEPARTMENT
DISTRICT OFFICE AT MACCLESFIELD.

Application forms for the following posts of ARCHITECTURAL ASSISTANT may be obtained from and must be returned completed to the District Architect, 62 Chestergate, Macclesfield:

A.P.T. II, £815 x £30(4) and £25(1)-£960 per annum.

A.P.T. I, £645 x £30(1) and £35(4)-£815 per annum.

EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.

## SHEFFIELD CITY.

APPOINTMENT OF CLERK OF WORKS (HOUSING), GRADE A.P.T. I-II (£645-£960).

Applications are invited from suitably qualified persons for the above permanent appointment on the staff of the City Architect, Mr. J. L. Womersley, to supervise contracts for the erection of houses, maisonettes and multi-storey flats.

Candidates should have a thorough knowledge of building construction including modern reinforced concrete practice and a wide experience of the building trade. A commencing salary in the region of £900 is envisaged for a suitably qualified and experienced person.

Applications stating age, present and past appointments, and full particulars of qualifications and experience, accompanied by the names and addresses of two referees, should reach me by MONDAY, 15th MAY, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

## CHATHAM
BOROUGH.

Applications are invited for the following appointments:—

1. ASSISTANT ARCHITECT, from professionally qualified and suitably experienced persons. Salary within A.P.T. IV (£1,140-£1,310).

2. ARCHITECTURAL ASSISTANT, from suitably experienced persons. Salary within A.P.T. III (£960-£1,140).

Applications, with the names and addresses of two referees, should be delivered to Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham, not later than SATURDAY, 20th MAY, 1961.

Housing accommodation will be available in appropriate cases.

The appointments will be (a) in accordance with the National Scheme of Conditions of Service, (b) terminable by one month's notice on either side, and (c) superannuable, subject to satisfactory medical report.

In accordance with their usual practice the Council will require the successful candidates to give an undertaking to remain in the Council's service for two years.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

## LEICESTER CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from Architects for the following:—

CHIEF ASSISTANT, Scale C, £1,560-£1,825;

GROUP LEADERS, Scale A, £1,340-£1,565;

SENIOR ASSISTANTS, A.P.T. IV/V, £1,140-£1,480;

ASSISTANTS, A.P.T. III/IV, £960-£1,310;

ARCHITECTURAL ASSISTANT, A.P.T. II, £815-£960.

Housing accommodation provided in appropriate cases. 5-day week in operation. Modern office accommodation.

The Department, organised on a group basis to encourage team-work, is being expanded to deal with an increased building programme and to carry out research into building methods and costs. The current building programme includes—Schools, Colleges of Further Education, Central Swimming Baths, Hostels, Youth Centres, Community Centres, Specialist Centres for Handicapped Persons, Housing and Central Area Re-Development Schemes including Markets, Bus Stations, etc.

Leicester, as a member of the Consortium of Local Authorities (CLASP) is engaged on research and development work on buildings of advance design.

Applications from qualified persons by 15th MAY, stating post applied for, grade and salary required, with names of two referees, to: J. H. Lloyd Owen, B.Arch., F.R.I.B.A., City Architect, 10 Loseby-lane, Leicester.

THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD

NO MORE UGLY NAIL HEADS OR HAMMER MARKS

*Inserted with a tool holding a pack of 50 nails at one loading.*

Also the maker of the JIFFY wallboard bevelling and grooving tools.

Sold and manufactured by the Patentee

ERNEST CHALMER Ltd., SYDENHAM DAMEREL TAVISTOCK, DEVON.
Phone: Milton Abbot 222

*London Office:*
11, LUDGATE HILL, E.C.4. Phone: City 7238.

## MANCHESTER
CITY ARCHITECT'S OFFICE.

Applications invited for the following TEMPORARY STAFF required in connection with the construction of the City's New Abattoir, Cold Store and Meat Market.

(a) SENIOR RESIDENT ENGINEER, salary £1,750-£2,000 per annum.

(b) JUNIOR RESIDENT ENGINEER, salary £1,250 per annum.

(c) CLERK OF WORKS, salary A.P.T. III, £960-£1,140 per annum.

Candidates for appointments (a) and (b) should be Chartered Structural Engineers and/or Chartered Civil Engineers and should have had considerable experience in reinforced concrete construction preferably for periods of approximately 10 and three years respectively.

Candidates for appointment (c) should have had wide experience in the supervision of large scale building works and reinforced concrete construction.

The period of the appointments will be approximately two years. The hours of employment will be those normally worked by the Building Trade.

Housing accommodation for a limited period may be provided for the successful candidates.

Removal expenses allowed.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable by 24th MAY, 1961.

## NEWCASTLE UPON TYNE
EDUCATION COMMITTEE.

COLLEGE OF FURTHER EDUCATION.
DEPARTMENT OF BUILDING AND RELATED STUDIES.

Required for September, 1961, LECTURER FOR BUILDING SUBJECTS at H.N.C. level and in Management and Foremanship courses. It is essential that the person appointed has industrial experience at Management level in the building industry. A knowledge of Method Study in relation to building is desirable. Salary £1,370 to £1,550 per annum.

Further particulars and form of application (returnable within fourteen days) obtainable from the Principal, College of Further Education, Bath-lane, Newcastle upon Tyne, 1.

## SHEFFIELD
UNIVERSITY.

Applications are invited for the immediate appointment of an experienced CLERK OF WORKS to supervise the construction of the final stages of an Athletics Centre (comprising large Swimming Bath, Gymnasium, Squash and Fives Courts). Building is expected to commence about 1st July, 1961. Commencing salary £1,000 per annum.

Applications, giving full details of age, qualifications, experience, present and previous appointments (with dates), present salary and the names and addresses of two referees, should reach the Bursar, The University, Western Bank, Sheffield, 10, not later than 20th MAY, 1961.

## CHISLEHURST AND SIDCUP
URBAN DISTRICT COUNCIL.

ASSISTANT ARCHITECT.

QUALIFIED ASSISTANT ARCHITECT required in Architects' Section of Engineer and Surveyor's Department.

Salary range £960-£1,310 plus London Weighting.

Applicants must have Final Examination of R.I.B.A.

Commencing salary for an Architect with 5 years' experience, including training, will be not less than minimum of Grade A.P.T. IV (£1,140 plus London Weighting).

Housing accommodation available.

Applications, giving age, experience and two referees, to the Clerk, Council Offices, Sidcup Place, Sidcup, Kent, by FRIDAY, 19th MAY, 1961.

## BARNSLEY
COUNTY BOROUGH.
EDUCATION COMMITTEE.

ST. HELEN'S SECONDARY MODERN SCHOOL.
SCHOOL FOR EDUCATIONALLY SUB-NORMAL CHILDREN.

Applications are invited for the appointment of a CLERK OF WORKS to supervise the erection of a Secondary Modern School for 680 children and a School for 140 E.S.N. Children at St. Helen's, Barnsley. Salary will be at the rate of £1,000 per annum rising by annual increments of £25 (2) to £1,050 per annum. It is expected that the minimum period of employment will be two and a half years.

Candidates should have a thorough knowledge of building construction, materials, installation of mechanical, heating and electrical services for large buildings, and generally have a wide experience of the Building Trade.

Preference will be given to persons who have supervised building contracts for modern school buildings.

Forms of application and conditions of service for the post can be obtained from the undersigned, to whom they should be returned when completed WITHIN TWO WEEKS from the date of the appearance of this advertisement.

H. A. REDBURN,
Director of Education.

Education Department,
Town Hall,
Barnsley.
April, 1961.

## ST. HELENS
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
ARCHITECTURAL SECTION.

Applications are invited for the following post:—

PRINCIPAL ASSISTANT ARCHITECT, A.P.T. Grade V (£1,310-£1,480 p.a.).

Applicants should be qualified Architects with good experience in general Municipal Development.

The appointment will be subject to the provisions of Local Government Superannuation Acts, N.J.C. Conditions of Service, Medical Examination and will be terminable by one month's notice. The Council operates a five-day working week.

Housing accommodation will be made available if required.

Applications giving details of age, qualifications, present and past appointments, details of experience and names and addresses of two referees should be forwarded to the undersigned not later than TUESDAY, 16th MAY, 1961.

Applicants must reveal relationship to any member or senior officer of the council.

Canvassing will disqualify.

M. WARD,
M.I.Mun.E., M.T.P.I., A.M.I.Struct.E.
Borough Engineer and Surveyor.

Town Hall,
St. Helens.

## BRIDGWATER
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

(a) ASSISTANT ARCHITECT, Grade III-IV, A.P.T., £960-£1,310.

(b) ARCHITECTURAL ASSISTANT, Grade II, A.P.T., £815-£960.

(c) QUANTITY SURVEYOR, Grade IV, A.P.T., £1,140-£1,310.

(d) ASSISTANT QUANTITY SURVEYOR, Grade III, A.P.T., £960-£1,140.

(e) QUANTITY SURVEYING ASSISTANT, Grade II, A.P.T., £815-£960.

For (a) and (c) appointments relevant Final Examinations required and for (b) and (d) Intermediate Examinations.

Housing accommodation provided for suitable applicants.

Forms from Borough Architect, 2 Taunton-road, Bridgwater, returnable by 22nd MAY, 1961.

H. A. CLIDERO,
Town Clerk.

Town Hall,
Bridgwater.
27th April, 1961.

## SUTTON COLDFIELD
BOROUGH.

BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF TECHNICAL ASSISTANT.

Applications are invited for the above appointment at a salary within Grade A.P.T. II (£815-£960).

Applicants must have a good general knowledge of building construction and will be required to assist with the preparation of plans, specifications and supervision of maintenance work on schools and other Council property.

Applications stating age and experience with the names and addresses of two referees to be sent to the Borough Surveyor, Council House, Sutton Coldfield, to arrive not later than TUESDAY, the 9th MAY.

J. P. HOLDEN,
Town Clerk.

Council House,
Sutton Coldfield.

## MALDON
BOROUGH.

Applications invited for the post of TEMPORARY CLERK OF WORKS (Building Works) in the Borough Engineer's Department, for a period of approximately six months, with a possibility of permanent employment.

The salary will be at the rate of £750 per annum, and the appointment will be subject to one month's notice on either side. Applications, giving age and experience, to the undersigned, by FIRST POST on 16th MAY, 1961.

Applicants to declare any relationship to members or senior officers of the Council.

K. C. ROBERTSON,
Town Clerk.

Municipal Offices,
Maldon,
Essex.

## BATTERSEA
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

GENERAL FOREMAN required in the Building Works Section for work on erection of houses and flats, etc. Applicant must be able to control work in all trades and have a good all-round experience in a similar capacity.

The appointment will be on a temporary basis in the first instance. Rate of pay £17 16s. 2d. per week.

Application forms obtainable from the Borough Engineer and Surveyor, Town Hall, S.W.11.

Closing date 20th MAY, 1961.

C. M. W. S. FREEMAN,
Town Clerk.

## WARWICK
BOROUGH.

Applications are invited for the following appointments:

1. ARCHITECT TO THE BOROUGH SURVEYOR.

Salary within Grade A.P.T. IV (£1,140-£1,310) according to ability and experience.

The person appointed will be fully responsible for the architectural section of the department.

Applicants must be Associate Members of R.I.B.A., with some years of post-graduate experience.

A lump sum car allowance of £120 per annum is made and the Council will assist with housing accommodation if required.

2. ARCHITECTURAL ASSISTANT.

Salary within Grade A.P.T. III (£960-£1,140) and Casual Car User allowance.

Applicants should be at least Intermediate Examination level.

Both the above appointments are subject to the N.J.C. Conditions of Service, Local Government Superannuation Acts, and to the passing of a Medical Examination. Applications stating age, qualifications, training and experience to be delivered to the undersigned with names of two referees by WEDNESDAY, 17th MAY, 1961.

C. E. BROWN, A.M.I.Mun.E.,
Borough Engineer and Surveyor.
23 Jury-street,
Warwick.

## GRAVESEND
BOROUGH.

APPOINTMENT OF BUILDING MAINTENANCE ASSISTANT.

Applications are invited for the above APPOINTMENT. The salary will be within A.P.T. Grade III (£960-£1,140) and housing accommodation will be provided if necessary. The successful candidate will be required to pass a medical examination and join the Corporation's Superannuation Scheme.

The Assistant will be required to supervise building maintenance work on all types of Corporation properties, to prepare specifications and estimates for maintenance and minor improvement works to buildings and to check Contractors' accounts for this type of work. He must have a considerable experience in the building industry and of building construction.

Applications accompanied by the names of three referees should be sent not later than TUESDAY, 23rd MAY to Mr. G. E. Hill, B.A., A.M.I.C.E., Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend.

## SALFORD CITY.

DIRECT LABOUR BUILDING DEPARTMENT.

Applications are invited for the positions of:—

(a) BUILDING SURVEYOR, Grade A.P.T. III, £960-£1,140 per annum.

Candidates must have had experience in measuring and site records, bonus incentive schemes, purchasing, interim valuations, final accounts. Preference will be given to persons who are Members of the Building Surveyor's Institute, Institute of Quantity Surveyors or equivalent.

(b) TECHNICAL ASSISTANT (HEATING AND ELECTRICAL), Grade A.P.T. III, £960-£1,140 per annum.

Candidates must have had considerable experience in the preparation of estimates for electrical and heating contracting, together with the preparation of specifications for minor alterations and adaptations. Preference will be given to persons holding the Higher National Certificate (Electrical Engineering).

Commencing salary for these posts will be according to qualifications and experience.

Housing accommodation may be provided if required.

Facilities exist for further Professional training and these appointments are superannuable and subject to a satisfactory medical examination.

At present the Department has four/five years' work in hand on the construction of Multi-storey Flats, Houses, Schools and Public Buildings, and there is tremendous scope to gain experience in these fields.

Applications to the General Manager, Direct Labour Building Department, Taylorson-street, Salford 5, to be received by 17th MAY, 1961.

R. RIBBLESDALE THORNTON,
Town Clerk.

## SOUTHEND-ON-SEA
COUNTY BOROUGH
EDUCATION COMMITTEE.
MUNICIPAL COLLEGE.

Principal: T. L. Morgan, M.Sc., A.M.I.C.E., A.M.I.Struct.E.

Applications are invited for the post of ASSISTANT Grade B in Building. The salary for the post will be in accordance with the Burnham Technical Scale *plus an allowance of £120 per annum.*

Further particulars and form of application may be obtained from the undersigned (stamped addressed foolscap envelope).

Completed forms should be returned to the Principal, Municipal College, Victoria Circus, Southend-on-Sea, within *10 DAYS* of the appearance of this advertisement.

D. B. BARTLETT,
Chief Education Officer.

Education Office,
Warrior-square,
Southend-on-Sea.

## WAKEFIELD CITY.

CITY ENGINEER'S DEPARTMENT.
TOWN PLANNING STAFF.

Applications are invited for the following superannuable appointments:—

(a) CHIEF TOWN PLANNING ASSISTANT, Grade A.P.T. V (£1,310-£1,480 p.a.).

Applicants must be A.M.T.P.I. and the person appointed will take charge of the Town Planning Section. The appointment offers excellent opportunity for experience in a City undertaking considerable central area and other redevelopments.

(b) TOWN PLANNING ASSISTANT, Grade A.P.T. III (£960-£1,140 p.a.).

Preference will be given to applicants who are A.M.T.P.I.

(c) JUNIOR TOWN PLANNING ASSISTANT, Grade A.P.T. I (£645-£815 p.a.).

Applicants should preferably have had experience in a Town Planning Office.

Housing accommodation will be provided if necessary in respect of appointments (a) and (b).

A 5-day working week is in operation.

Applications, stating age, qualifications and experience, together with the names of two referees, to be sent to the City Engineer, Town Hall, Wakefield, by the 31st MAY, 1961.

## BRIGHTON
COUNTY BOROUGH

ASSISTANT ARCHITECTS.

Applications are invited for the appointment of two ASSISTANT ARCHITECTS, Grade A.P.T. V (£1,310-£1,480). Applicants must have passed the R.I.B.A. Final examination, or the special final examination.

Preference will be given to candidates who have had experience in large contracts for Colleges of Technology and Colleges of Art.

The commencing salary will be adjusted to suit the experience and qualifications of the successful candidates.

The Corporation will refund 50 per cent. of the successful candidates' removal expenses.

Application forms may be obtained from D. J. Howe, M.I.C.E., M.I.Mun.E., Borough Surveyor, Engineer and Planning Officer, and must be returned to him at 26-30 King's-road, Brighton, by NOON on 19th MAY, 1961.

W. O. DODD,
Town Clerk.

## MANCHESTER
CORPORATION.

DIRECT WORKS DEPARTMENT.

Applications are invited from technically qualified and widely experienced persons for the following appointments in the Technical and Planning Divisions:—

(1) ESTIMATING SURVEYOR, A.P.T. IV, £1,140-£1,310 p.a.

Duties include the estimating for large projects up to £250,000 value and taking off quantities principally for schemes of adaptations.

(2) SAFETY OFFICER, A.P.T. III, £960-£1,140 p.a.

To be responsible for the overall administration of the Building Safety Regulations and their practical application, also site welfare and apprentice training schemes.

Technically qualified and practically experienced officers are available to advise and assist the successful applicants.

Five-day week, superannuation. Assistance with removal expenses and temporary housing accommodation may be provided.

Applications in writing, stating age, education, experience, qualifications and present salary or grading, to W. K. Wilson, Director of Works, 324 Deansgate, Manchester, 3. Closing date 15th MAY, 1961.

## LANCASHIRE
COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS
(within the salary range £645-£960 according to experience and ability).

Applications are invited from ARCHITECTURAL ASSISTANTS for appointments to the permanent staff of the County Architect's Department, which is engaged on a large and varied programme of major projects.

Applicants should have attained Intermediate R.I.B.A. standard and should have a reasonably varied experience.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, should be returned by 26th MAY.

## WEST SUSSEX
COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:

ASSISTANT ELECTRICAL ENGINEER at a salary in accordance with Grade A.P.T. II of the National Scales of Salaries (£815-£960 per annum). COMMENCING SALARY ACCORDING TO EXPERIENCE.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than 22nd MAY, 1961.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

## LANCASHIRE
COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECTS (N.J.C. Scale "B," £1,505-£1,670).

Applications are invited from experienced ARCHITECTS for posts on the permanent staff. The County Council has a large and extremely varied building programme, and posts will be filled by men of initiative, imagination and a flair for sensitive design.

Applicants are expected to be Registered Architects, as well as Associates of the Royal Institute of British Architects and, if appointed, will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 26th MAY, 1961.

## CANTERBURY CITY.

Applications are invited for the appointment of a BUILDINGS MAINTENANCE SURVEYOR within A.P.T. III (£960-£1,140). Applicants with the final qualification of the R.I.C.S. (Building) will be given preference. The person appointed will be required to prepare annual estimates, repair programme specifications and to supervise all maintenance and minor alteration works to Council properties including Schools, Public Buildings and Housing, etc.

Housing accommodation will be provided if necessary.

Applications, stating age, qualifications, experience and the names of two referees, should be forwarded to the City Architect, Municipal Buildings, Canterbury, by 20th MAY, 1961.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

## WORTHING
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT on Grade A.P.T. II, £815-£960 per annum.

Candidates should have had experience in an Architect's office and be training for professional examinations.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidate passing satisfactorily a medical examination.

Applications, stating age, qualifications, experience, present and past appointments, with dates, and accompanied by copies of two recent testimonials, should be submitted to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than the 17th MAY, 1961.

ERNEST G. TOWNSEND,
Town Clerk.

## MIDDLESEX
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

CHARTERED QUANTITY SURVEYOR, A.P.T. V, (£1,355-£1,525), with not less than 5 years' experience in measurement of work in progress and settlement of final accounts. Established, pensionable. Prescribed conditions. Application forms (s.a.e.) from County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1, returnable by 23rd MAY. (Quote G.189/B.)

## HERTFORDSHIRE
COUNTY COUNCIL.

STEVENAGE BY-PASS.

Applications are invited for the appointment of QUANTITY SURVEYOR at a salary of £1,385 p.a. This is a temporary appointment on work for a period of about 12 months. Candidates should hold appropriate qualifications. Applications (no forms supplied) stating age, qualifications, present salary, details of experience and names of two referees, to be sent at once to the County Surveyor, County Hall, Hertford.

## HOVE
BOROUGH.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of SENIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV (£1,140 to £1,310).

Candidates should have a general experience including the preparation of drawings and specifications and should have passed the Final Examination of the Royal Institute of British Architects or equivalent. One month's notice is required on either side.

Consideration will be given to the provision of housing accommodation if required.

Applications stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees should be delivered to the Borough Engineer and Surveyor, Town Hall, Hove, 3, by SATURDAY, 20th MAY, 1961.

## EXETER
CITY COUNCIL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff to deal with an interesting and varied programme of local authority works:—

(a) PRINCIPAL ASSISTANT ARCHITECT (DESIGN). Salary within Scale "B" (£1,415 to £1,670).

(b) PRINCIPAL ASSISTANT ARCHITECT. Salary within Scale "A" (£1,370 to £1,565).

For appointment (a) applicants must have had considerable experience in all classes of educational and municipal buildings and multi-storey flats. Experience in civic design and redevelopment areas would be an advantage.

For appointment (b) applicants must have had considerable experience in either schools and technical colleges or general municipal buildings and multi-storey flats.

Provision of housing accommodation will be considered and removal expenses will be paid.

Applicants must be Associate members of the R.I.B.A. N.J.C. conditions of service. Successful candidates will be required to pass a medical examination.

Applications, stating age, experience and qualifications, should be received by the City Architect, Municipal Offices, Exeter, not later than the 15th MAY, 1961.

## LONDON ELECTRICITY BOARD.

ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the above position under the supervision of an Architect in the Chief Engineer's Department in Central London (Waterloo).

Applicants should be neat and capable draughtsmen and preferably have had several years' experience in an Architect's Office.

The post is graded under Schedule "B" of the National Joint Board Agreement, as Grade 13, Class BX, and the commencing salary will be in the range of £780 to £1,065 per annum, inclusive of London Allowance.

Application form obtainable from the Construction Engineer, Lesco House, Stamford-street, London, S.E.1. Please quote ref.: PER/V/3230/B.

## LEICESTER CITY.

CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of the following ASSISTANTS in my Maintenance Section:—

(a) 1—Grade A.P.T. IV (£1,140 to £1,310 per annum).

(b) 1—Grade A.P.T. III (£960 to £1,140 per annum).

(c) 1—Grade A.P.T. II (£815 to £960 per annum).

(d) 1—LEARNER, General Division (£220 to £360 per annum).

Candidates for (a), (b) and (c) should be suitably qualified by Examination and have a good knowledge of and be experienced in the maintenance of public buildings, alterations and additions to properties, preparation of plans, specifications, estimates, schedules, etc. Some knowledge of Work Study will be an advantage. The Learner's duties will include surveys, tracings, etc.

The appointments are subject to the Local Government Superannuation Acts and the passing of a medical examination.

Applications, stating age, qualifications and experience, and the names of two referees, should be forwarded to the undersigned by 22nd MAY, 1961.

Housing accommodation may be made available if required.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

## LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECTS, A.P.T. IV (£1,140-£1,310).

(Starting salary according to experience.)

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 26th MAY, 1961.

## LEWISHAM
METROPOLITAN BOROUGH.

ASSISTANT BONUS SURVEYOR, A.P.T. II.

Applications are invited from suitably qualified persons for this permanent post (Borough Architect's Department). Salary Scale £815-£960 p.a. plus London Weighting varying between £15 and £40 p.a. according to age. Applicants must have had experience in estimating and operation of bonus schemes for building maintenance work.

Application forms and further particulars from Town Clerk (Dept. F), Lewisham Town Hall, S.E.6. Closing date 19th MAY, 1961.

## LEICESTER CITY.

CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the following posts in the Building Inspection Section of my Department:

(a) AREA INSPECTORS, A.P.T. III (£960-£1,140 p.a.).

(b) SENIOR INSPECTORS, A.P.T. II (£815-£960 p.a.).

(c) JUNIOR INSPECTORS, A.P.T. I (£645-£815 p.a.).

All applicants should hold the Building Inspectors Certificate of the Institution of Municipal Engineers or other suitable qualification, and for posts (a) have had experience in the administrative work in Building Inspection, and (a) and (b) wide experience in Municipal Building Inspection duties, Building Law and capable of controlling staff.

The Local Government Superannuation Acts apply.

Housing accommodation may be made available if required.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

## LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECTS, A.P.T. V (£1,310-£1,480).

(Starting salary according to experience.)

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 26th MAY, 1961.

## BARKING
CORPORATION.

DEPARTMENT OF THE BOROUGH ARCHITECT.

A vacancy has occurred in the quantity surveying section for an ASSISTANT SURVEYOR with knowledge of taking off, abstracting and billing.

The department has a large and varied programme of work.

The salary scale is A.P.T. III, £960-£1,140 plus the appropriate London Weighting. A major number of Saturday mornings are free of duty.

Applications in writing giving details and names of two technical referees should be sent to the undersigned within 14 DAYS OF THIS ADVERTISEMENT.

E. R. FARR,
Town Clerk.

Town Hall,
Barking,
Essex.

## TWICKENHAM
BOROUGH.

BUILDING INSPECTORS.

Applications are invited for BUILDING INSPECTORS on Grade A.P.T. II-III (£815-£1,140) for qualified applicants and Grade A.P.T. II (£815-£960) for unqualified applicants. Commencing salary in accordance with qualifications and experience. In both cases plus London Weighting. Car allowance. N.J.C. conditions. Superannuation scheme. Canvassing will disqualify. If married consideration will be given to the provision of housing.

Applications stating age, qualifications, experience and giving names of two referees to Borough Engineer, Municipal Offices, Twickenham, by 17th MAY, 1961.

W. H. JONES,
Town Clerk.

## WANDSWORTH
METROPOLITAN BOROUGH.

SENIOR ASSISTANT ARCHITECT.

Grade A.P.T. V (£1,355 rising to £1,525). Applicants must be A.R.I.B.A. with experience in design and planning of multi-storey blocks of flats and supervision of their erection. Forms from Borough Engineer returnable to me by 22nd MAY.

J. NOEL MARTIN,
Town Clerk.

## RUGBY
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department, which has an interesting and varied programme of work.

The commencing salary will depend on qualifications and experience and will be within A.P.T. Grade IV (£1,140-£1,310). Housing accommodation will be provided if required and a car allowance on the essential user scale will be paid.

Further particulars and form of application may be obtained from the Borough Engineer and Surveyor, Burford House, Church-walk, Rugby, to whom completed applications must be sent not later than 20th MAY, 1961.

T. L. DUFFY,
Town Clerk.

## COVENTRY
TECHNICAL COLLEGE.

(Principal: H. C. Smith, M.Sc., Ph.D., F.R.I.C.)

DEPARTMENT OF BUILDING.

Applications invited for post of ASSISTANT, Grade B, for Plumbing and allied courses, from September, 1961 or date to be arranged. Applicants should have City & Guilds Final Certificate in Plumbing; preference given to those holding Full Technological Certificate of Welding qualification. Good industrial experience essential; previous teaching experience an advantage.

Salary £700-£1,150 p.a. plus additions for training. Commencing salary depends on age and experience.

Further particulars and application forms (s.a.e. foolscap) from The Principal, Coventry Technical College, Butts, Coventry. Completed forms returnable by 18th MAY.

W. L. CHINN,
Director of Education.

## HARROW
BOROUGH.

Applications are invited for the following appointments in the Borough Engineer's Department:—

(a) BUILDING SURVEYORS, A.P.T. Grades III-IV (*£960 to £1,310 p.a. plus London "Weighting") for works of maintenance and improvements to Municipal properties, including Schools.

Applicants must possess a sound knowledge of building construction and services and have extensive experience of specification writing.

"Casual user" car allowances are provided.

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. Grade III (£960 to £1,140 p.a. plus London "Weighting").

Applicants should have passed the Intermediate Examination of the R.I.C.S. or I.Q.S.

The Council may be able to help with housing accommodation in the light of the applicant's circumstances and a contribution towards removal expenses will be considered.

* NOTE:—Commencing salaries will be in accordance with qualifications and experience, but in the case of appointments (a) applicants will not proceed beyond the maximum of A.P.T. Grade III, unless they possess the appropriate qualification.

The appointments are subject to the Local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Forms of application may be obtained from me and must be returned, not later than FRIDAY, 19th MAY, 1961.

DAVID PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
Harrow,
Middlesex.

## STOCKPORT CORPORATION

# WORKS MANAGER

required
to take charge of the Building Works Section of the Borough Architect's Department

Salary Grade A.P.T. IV/V
**(£1,140—£1,480 per annum)**

The starting salary and point of entry to the grade will be determined by the quality of the successful applicant.

A man of initiative who can take responsibility is required. He must be able to control a large labour force in all trades, be competent to deal with the maintenance of all types of Municipal Buildings, including Houses, Multi-storey flats, Schools and Public Buildings, Control of Stores, knowledge of Bonus Incentive Schemes and supervision of Contractors in *all* trades.

5-day week. Car allowance. 100% mortgage for House purchase considered in approved cases. Canvassing disqualifies. Post pensionable, subject to medical examination.

Full particulars—stating age, qualifications, experience, two referees, and if related to member/senior officer of Council, to:

**Borough Architect,
Town Hall,
Stockport.**

by 21st May, 1961.

**IT'S HARDLY SURPRISING**
**that more and more Architects and Builders are specifying the**

**BATLEY Suparise**
SPRING CONTROLLED
**UP & OVER DOOR GEAR**

because they know that Suparise is exceptionally robust, reliable and easy to fit. Available for new installations, with a choice of Aluminium Alloy or selected Timber Doors; or for converting existing hinged doors to 'Up & Over' Doors. PRICE **£11.10.0** (gear only).

Alternatively complete Batley Up and Over Doors can be supplied in ribbed Aluminium Alloy (**£20**) or exterior grade Mahogany Ply (**£19**), or Roller Shutter doors in selected timber laths.

**Generous Trade Terms available**

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## GREENWICH
METROPOLITAN BOROUGH.

APPOINTMENT OF PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a PRINCIPAL ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary grade A.P.T. V (£1,355-£1,525 per annum, including London weighting). Commencing salary in accordance with qualifications and experience.

Candidates should be Registered Architects, preferably Associates of the R.I.B.A., with experience in housing and other municipal projects.

Application forms obtainable from the undersigned, to be returned by NOON on THURSDAY, 18th MAY.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.

## MIDDLESEX
COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

TOWN PLANNING DRAUGHTSMEN (A.P.T. I, £645-£815 plus London Weighting up to £40). Town planning or cartographical experience desirable. Application forms from County Planning Officer, 10 Great George-street, S.W.1, returnable by 16th MAY. (Quote G.160B.)

## BIRMINGHAM CITY.

CHILDREN'S COMMITTEE.
FORHILL HOUSE SENIOR BOYS' REMAND HOME.
APPOINTMENT OF INSTRUCTOR.

Applications invited for the post of INSTRUCTOR to specialise in painting and decorating. Salary £550 x £20-£630 plus £216 for minimum of 15 hours extraneous duty per week. Two-bedroomed house available. Wife of successful candidate can be considered for post of part-time assistant cook (3s. 4½d. per hour).

Application forms and further particulars from Children's Officer, 91 Lionel-street, Birmingham, 3. P.O. Box 93. Closing date 26th MAY, 1961.

## WIMBLEDON
BOROUGH.

ARCHITECTURAL DRAUGHTSMAN, Grade A.P.T. II, £815 to £960 plus London Weighting. Form of Application from Borough Engineer and Surveyor, Town Hall, Wimbledon, S.W.19. Returnable by 15th MAY, 1961. Canvassing disqualifies.

## MERTHYR TYDFIL
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS in the Borough Architect's Department, at a salary of Grade A.P.T. II (£815-£960 per annum).

Candidates must have experience as a Clerk of Works or General Foreman in the construction of substantial building contracts and preference will be given to candidates who hold the Higher National Certificate in Building.

Applications, stating age, qualifications, experience, with the names of two referees, must be received by the undersigned not later than the 18th MAY, 1961.

Canvassing in any form will disqualify.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil,
Glam.

## LEWISHAM
METROPOLITAN BOROUGH.

TECHNICAL ASSISTANT.

Applications are invited from suitably qualified persons for the above permanent appointment in the Borough Architect's Department. Salary Scale A.P.T.I. (£645-£815 p.a.) plus London Weighting varying between £15 and £40 p.a. according to age. Sound knowledge of building construction essential.

Application forms and further particulars from Town Clerk (Dept. F), Lewisham Town Hall, S.E.6. Closing date 19th MAY, 1961.

## WILLESDEN
BOROUGH COUNCIL.

HOUSING AND ESTATES DEPARTMENT.

Applications are invited from suitably qualified persons for the following post:—

TECHNICAL ASSISTANT, suitably qualified, salary grade A.P.T. III, i.e., £960 p.a. rising to £1,140 p.a. plus London Weighting of £45 p.a. according to age. Five-day week.

Candidates should be experienced in the repair, maintenance, adaptation and improvement of housing properties, and be able to prepare detailed specifications of work.

Further particulars and forms of application from the Housing and Estates Manager, Town Hall, Dyne-road, N.W.6, returnable by SATURDAY, 20th MAY, 1961.

R. S. FORSTER,
Town Clerk.


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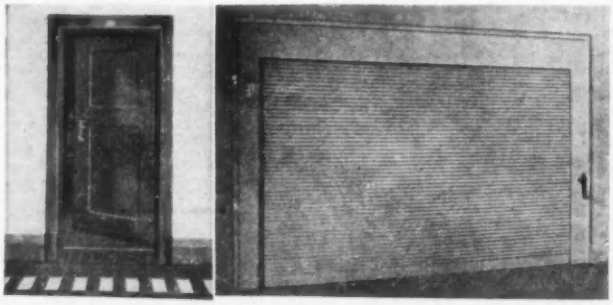
Every year is a more costly year as far as fire losses are concerned in this country.

How can you, personally, help to limit these losses? An effective method is to sectionalise buildings with fireproof walls and protect the openings with DREADNOUGHT Fireproof Doors and Rolling Shutters. These are of good appearance and are approved by the Fire Offices Committee. Details can be obtained from:—



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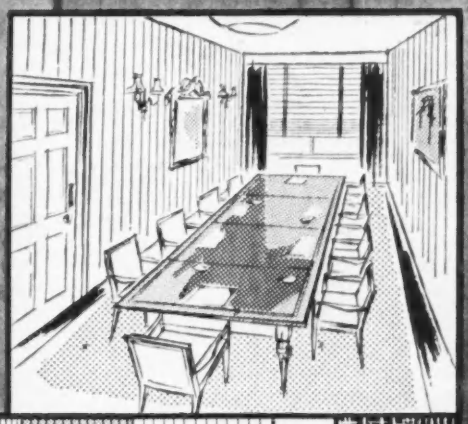

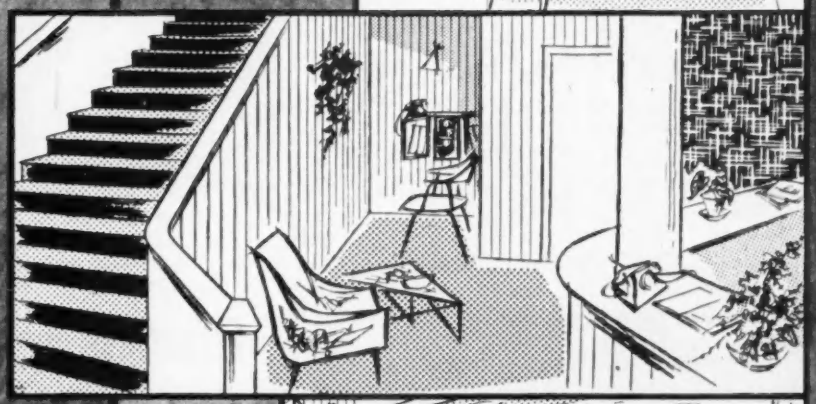

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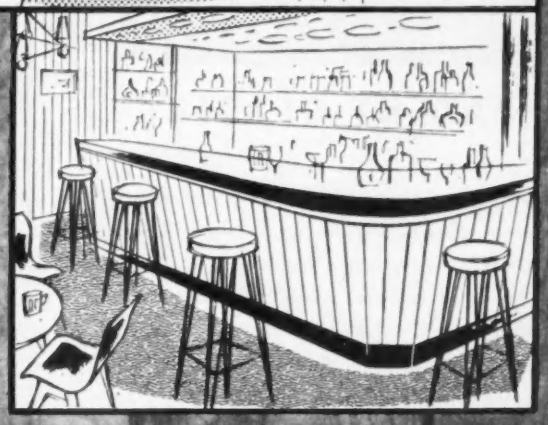

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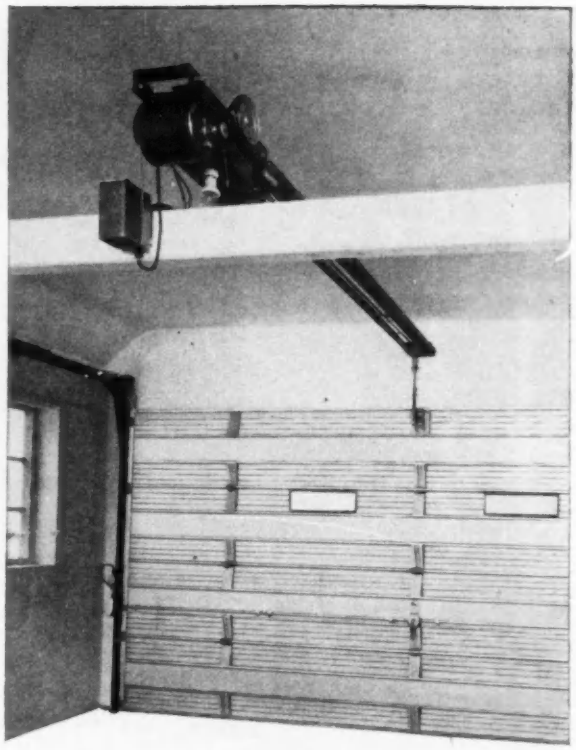

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# Effortless by hand— smooth by power . . .

Only a touch and the Glydover Garage Door rises effortlessly open, glides smoothly shut. Power operated, it exemplifies luxurious efficiency. Architects will find in Glydover a combination of good, functional design and all-weather durability.

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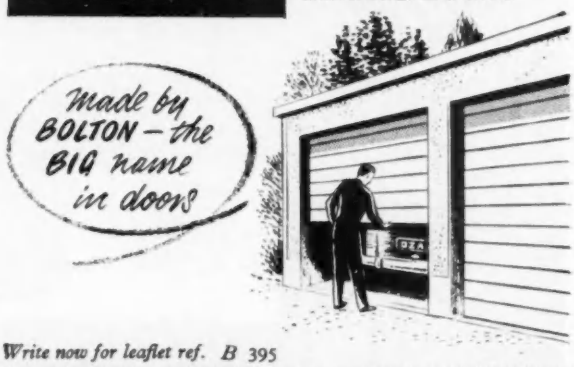


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CFB/KB

7th February 1961.

K. G. Beck Esq.,
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42, Yupwood Lane,
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Dear Mr. Beck,

Further to our conversation I thought I would write to you to place on record how pleased we have been with the Silkstone doors supplied to us by your Company.

As you know, we have used thousands of these doors on our Estate development throughout the Country and apart from our complete satisfaction with the doors themselves, we have never found any finer surfaces for painting.

Yours sincerely,

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*Mr. Beck is the Gliksten Doors representative in London*

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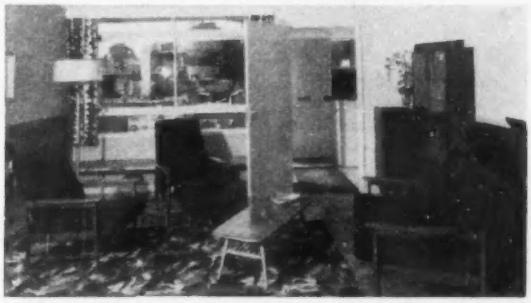

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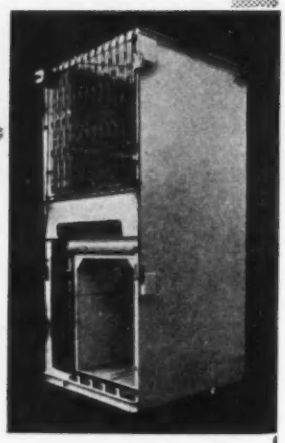

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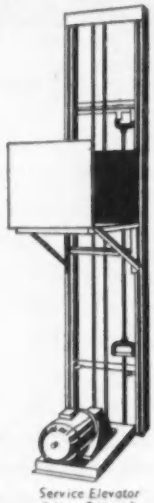

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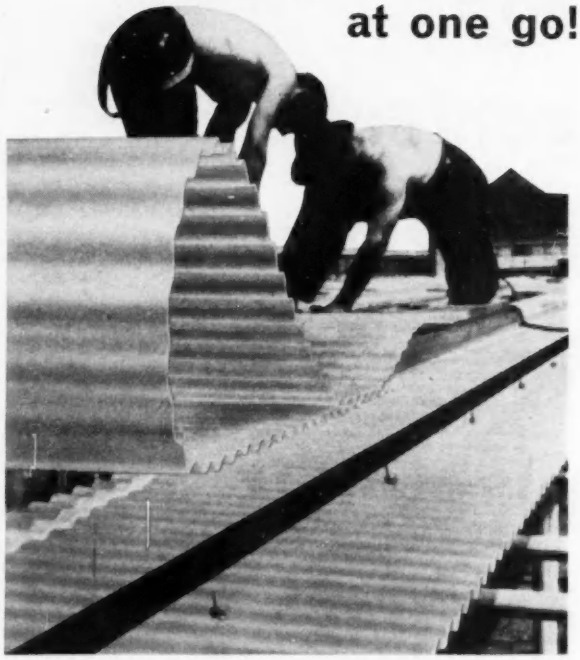

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Contirol is polyester resin-glass fibre in corrugated or flat sheet and will be available in a wide variety of roofing profiles. It is expressly produced for daylight roof-lighting, north lights, verandahs, covered corridors, canopies and loading bays.

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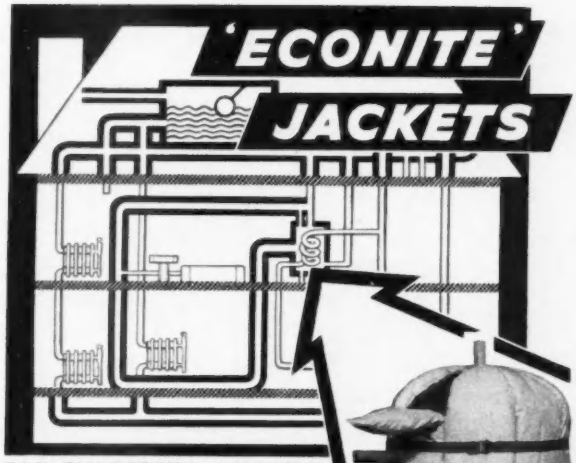

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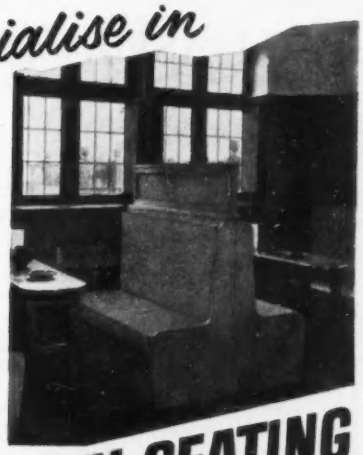

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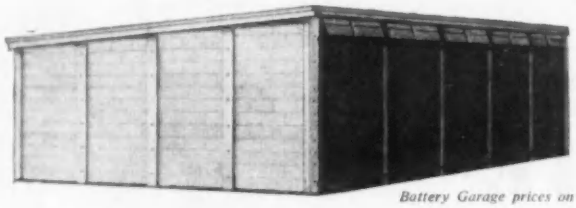

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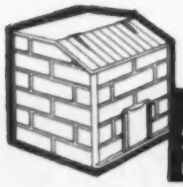

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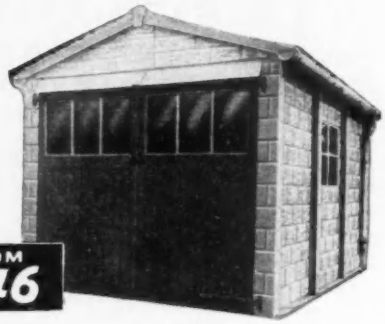

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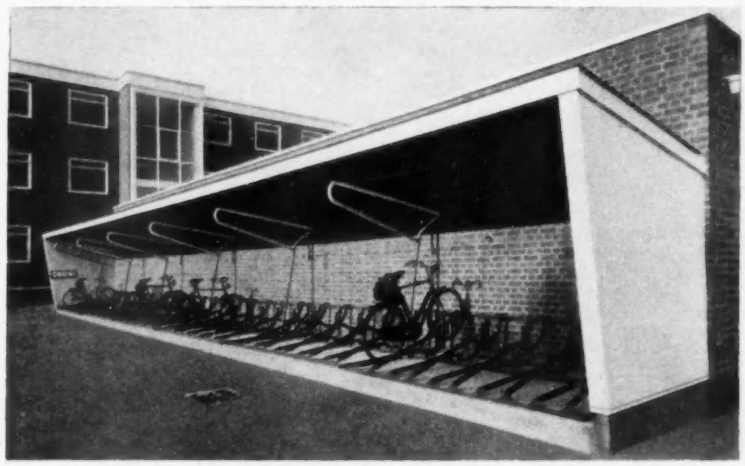

Type TS/HCI Tubular Shelter with Type 4 Odoni Patent Horizontal 'All Steel' Bicycle Stands at Stevenage Divisional Police Headquarters. (Photo by courtesy of G. C. Fardell, MBE, ARIBA, County Architect, Hertfordshire County Council)

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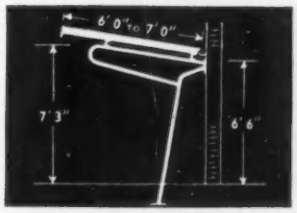


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***wall***

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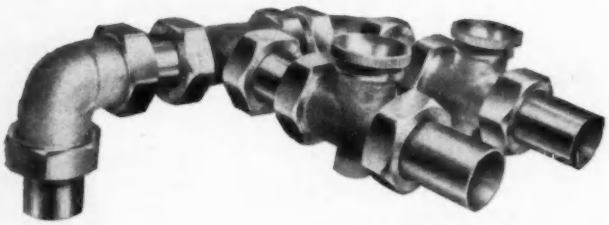

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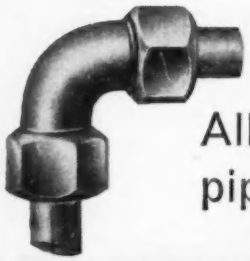

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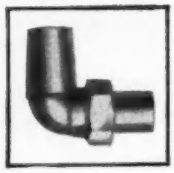

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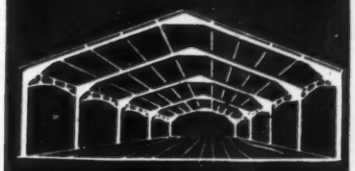
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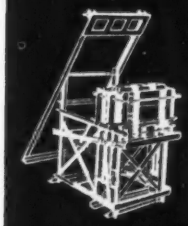
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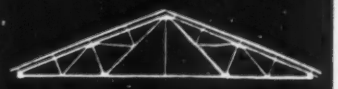
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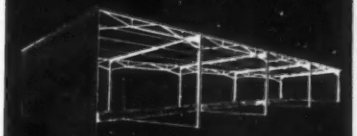
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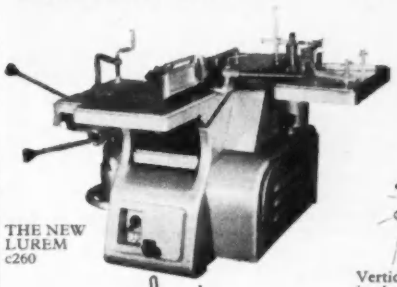

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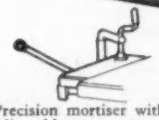

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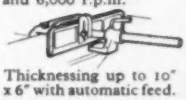

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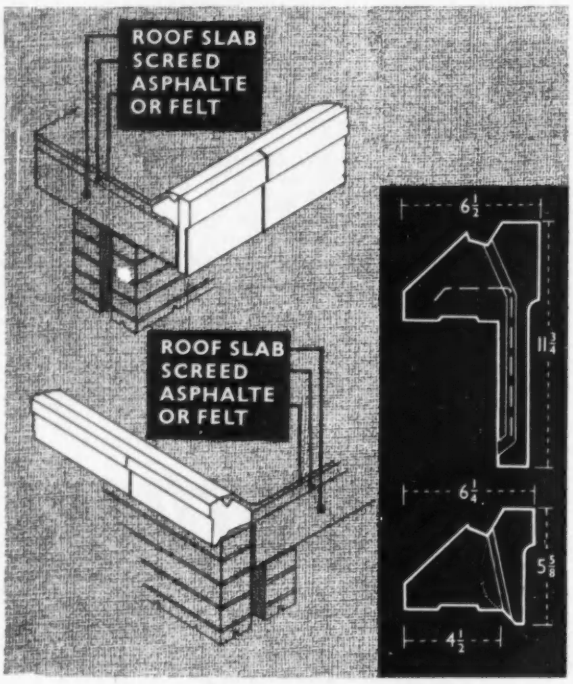


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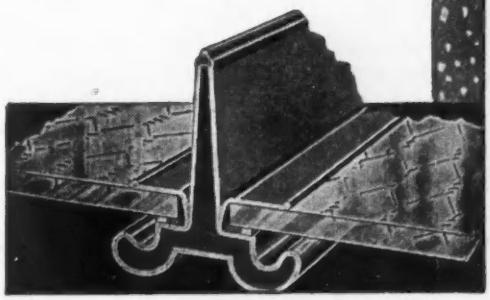

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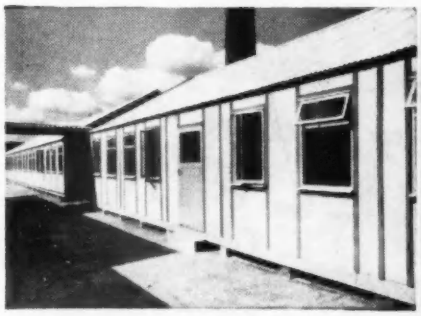

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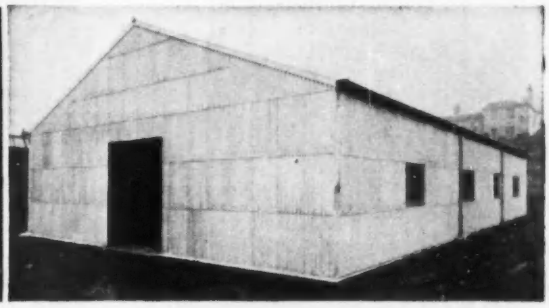

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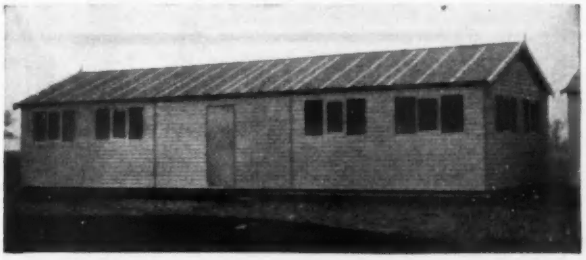

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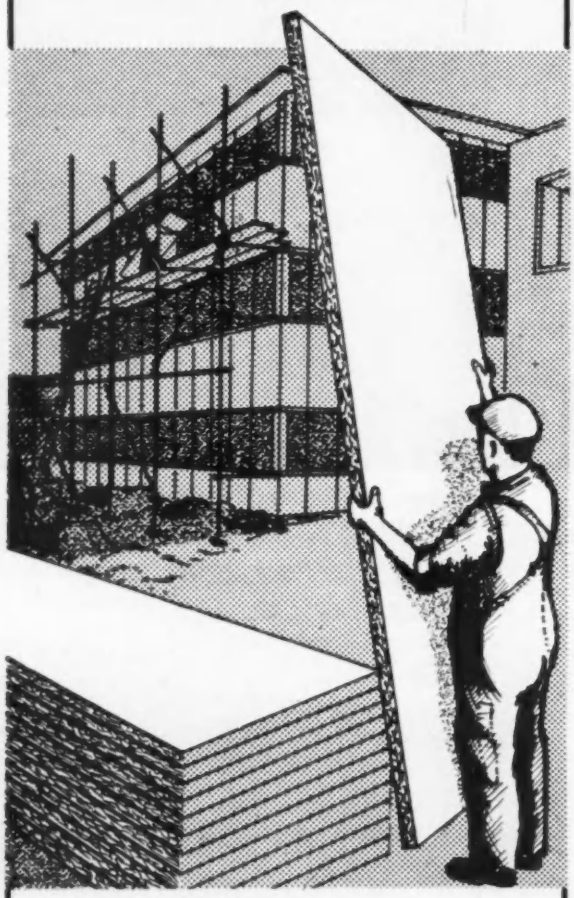

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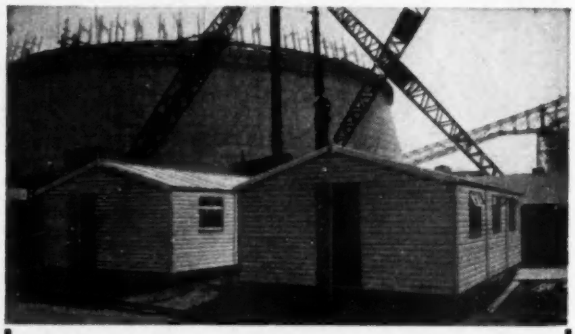

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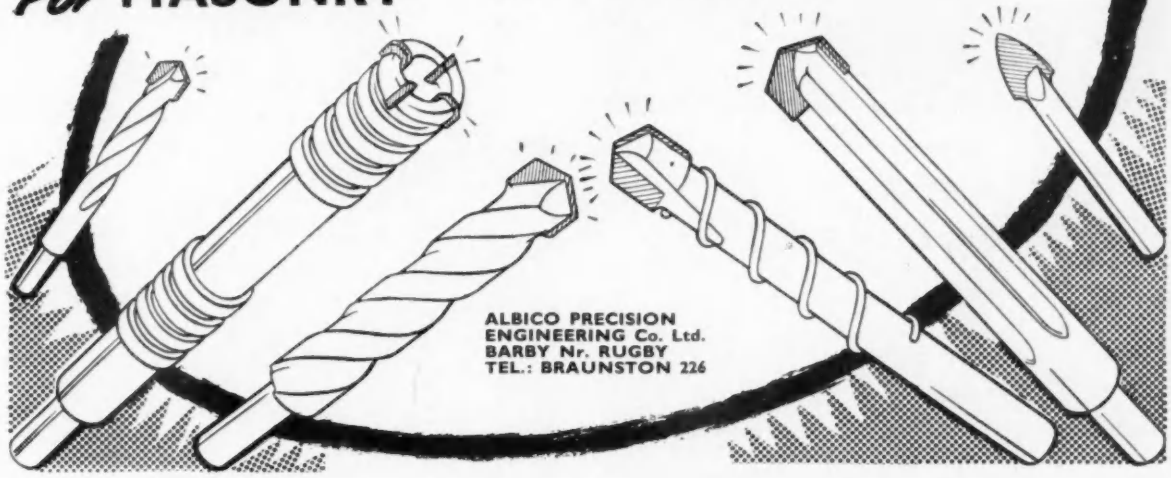

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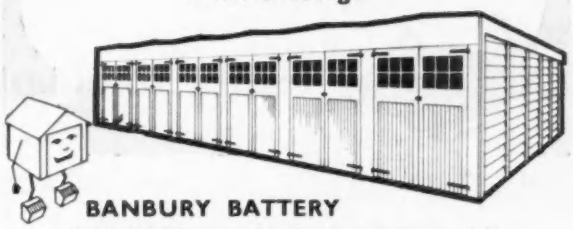

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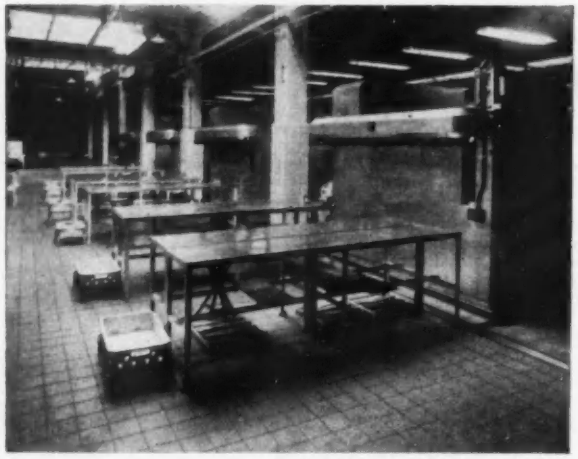

*Photo by courtesy of Palethorpes Ltd., Tipton*
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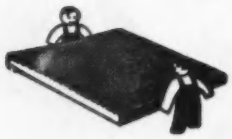

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*for* **CURTAIN WALLING**

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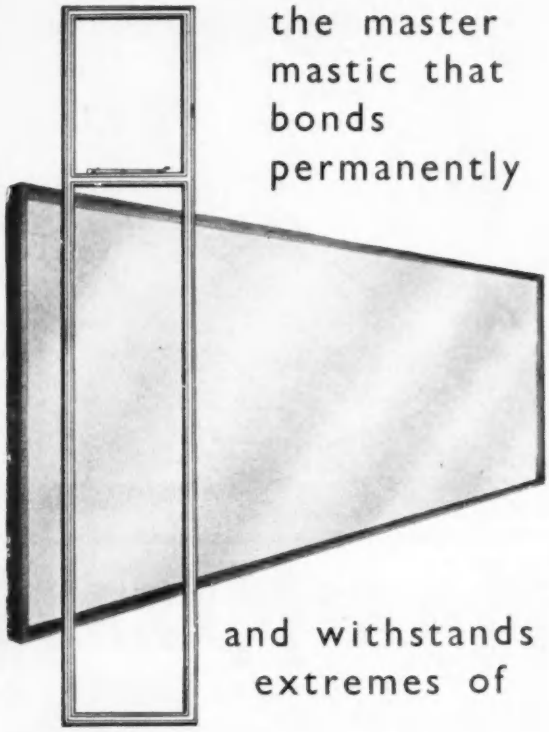

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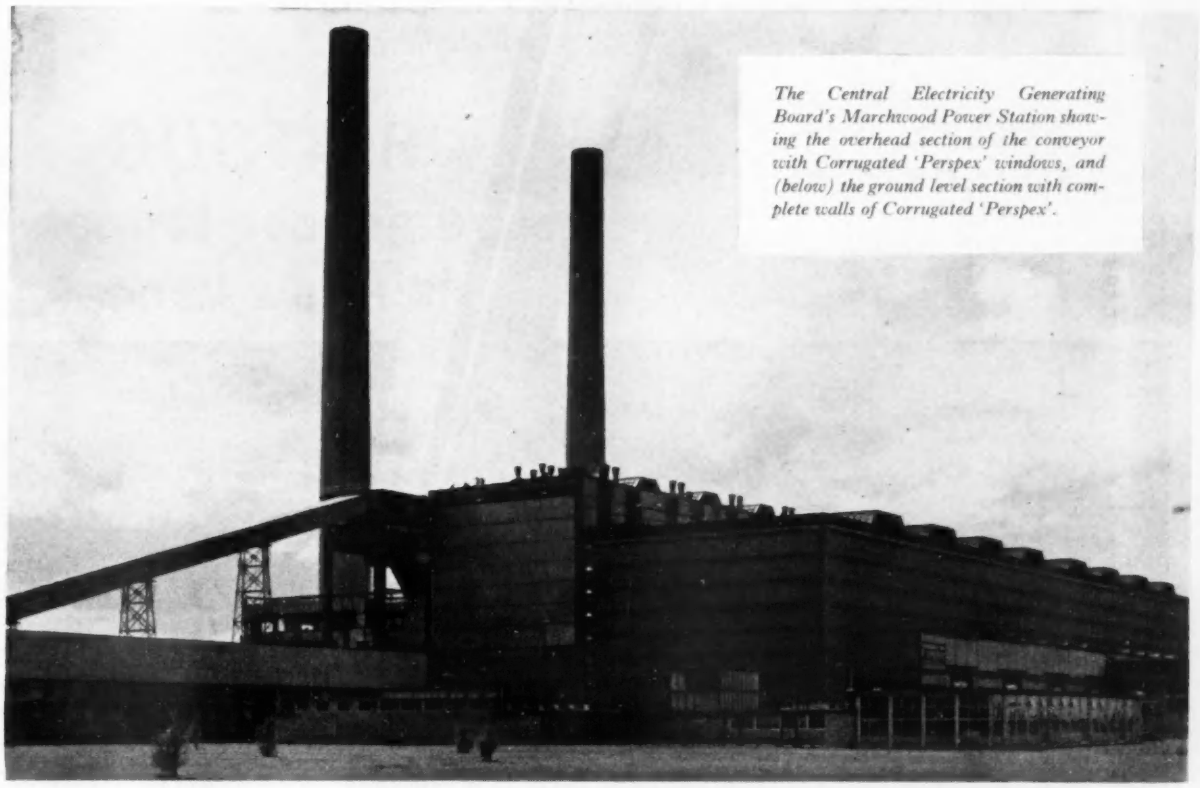

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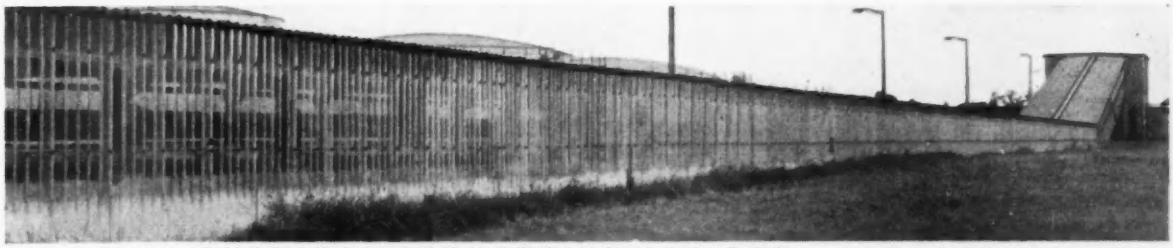

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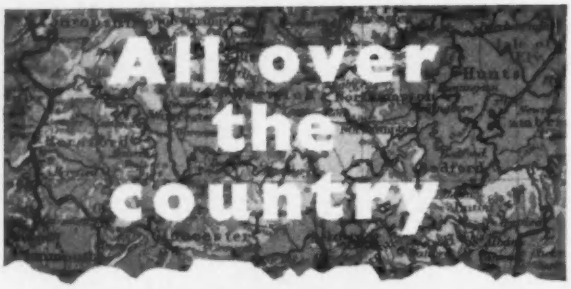


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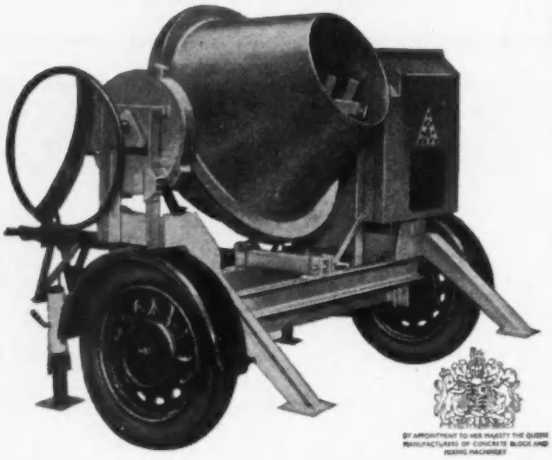

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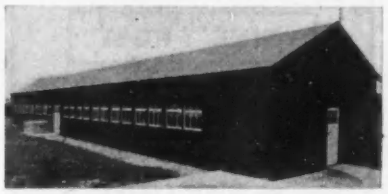
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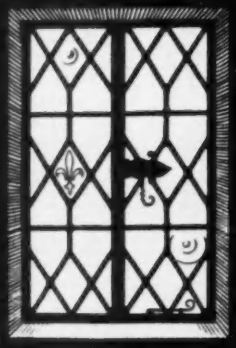

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**QUANTITY SURVEYOR** Required by firm of Chartered Quantity Surveyors for long-term contract at Port Talbot.—Please apply, stating age, experience and salary required, to Box 5341, "The Builder."

**EXPERIENCED MEASURING SURVEYOR** for large civil engineering contract in North Kent.—Firm of Chartered Quantity Surveyors invite applications, stating age, experience and salary required, to Box 5342, "The Builder."

**EXPERIENCED TAKER-OFF/MEASURING SURVEYOR** Required by Chartered Quantity Surveyors for building and civil engineering contract at Scunthorpe.—Apply, stating age, experience and salary required, to Box 5343, "The Builder."

**ASSISTANT** Required by Chartered Quantity Surveyor to deal with requests by staff and clients for information on materials, costs and comparisons. Taking-off experience essential.—Box 5134, "The Builder."

**WANTED** for all-round Q.S. duties by small but expanding professional firm, Harrow area, to assist with varied programme of future work. Good rewards and prospects for conscientious workers.—Write, giving full particulars, to Box 5356, "The Builder."

**QUANTITY SURVEYOR,** preferably A.R.I.C.S., Required for small office. Work of all kinds on variety of projects. Must be prepared to work on own initiative. Five-day week. Salary £1,000 to £1,250.—ELSWORTH SYKES & PARTNERS, 5 Maddox-street, W.1.

**ASSISTANT QUANTITY SURVEYOR,** Intermediate or Final Standard, Required in quantity surveying section of Architect's office headed by chartered quantity surveyor. Interesting and varied programme. Pleasant out of town offices, 5-day week. Salary £800-£1,200 according to experience plus pension scheme after probationary period. Interview expenses paid.—MORRISON AND PARTNERS, Chartered Architects, 103 Belper-road, Derby.

**LONG-ESTABLISHED** Firm of London (E.C.) Chartered Quantity Surveyors Require qualified ASSISTANTS capable of taking charge of complete jobs with minimum supervision.—Write, stating experience and salary required, Box 5030, "The Builder."

**EXPERIENCED QUANTITY SURVEYORS** and ASSISTANT QUANTITY SURVEYORS Required by firm of Chartered Quantity Surveyors with head office in the North Midlands, to work either at head office or at branch offices at Stafford or Banbury. Salary according to experience. Car provided for senior staff appointments. Five-day week. Capability of qualifying for non-contributory pension in addition to state scheme.—Apply, giving full particulars of experience and salary required, to Box 5036, "The Builder."

**ASSISTANT QUANTITY SURVEYOR** Required for varied and interesting work in small London office. —Apply in writing with full details to IBBOTT AND BURKE, F/F.I.Q.S., 8 Ely-place, E.C.1.

**ASSISTANT QUANTITY SURVEYOR,** R.I.C.S., intermediate standard, Required in small office on varied and interesting work. Five-day week, L.V. and pension scheme. Salary by arrangement.—F. B. BRYDEN & PARTNERS, 33 Catherine-place, Westminster, S.W.1. Tel.: VIC 0924/5.

# £1,125—£1,500

**Co-operative Wholesale Society Ltd.**
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have vacancies for

# QUANTITY SURVEYORS

Senior Takers Off, with Professional experience.
Membership of R.I.C.S. desirable but not essential.
Commencing salary dependent on ability and experience.

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Applications, stating training, age, experience, qualifications and salary required to:—

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*for sites in LINCS., NORTHANTS., WORCESTER and MIDDLESBROUGH areas*

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# ASSISTANT QUANTITY SURVEYOR

*for London Office*

Apply stating age and experience to

**Chief Surveyor**
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Padgate,
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## QUANTITY SURVEYORS

required for West End Contractor's Office. Familiar with taking-off for all trades, site valuations and general surveying duties.

Salary envisaged not less than £1,000 per annum.

Contributory pension scheme and free life insurance scheme in operation.

Give details of age and experience.

Apply:—

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## QUANTITY SURVEYORS

Excellent opening offered to young Quantity Surveyor wishing to gain experience with progressive firm of B. & C.E. Contractors in North Wales. Permanent and pensionable position. Apply with details of age, experience and salary required to:

**Box J.249,**
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**CHARTERED QUANTITY SURVEYORS** (S.W.1) owing to further expansion on long-term varied and interesting projects will have vacancies shortly for various grades of takers-off for all duties (taking-off, site measuring, cost planning, estimating and pricing) and for workers-up. Permanent appointments. Superannuation scheme. Luncheon vouchers. Salaries according to experience with six monthly reviews.—Write full particulars to Box 5147, "The Builder."

**QUANTITY SURVEYOR (A.R.I.C.S.)** to take charge of quantity surveying work at Site Office on long-term major project in North-East Midlands. Applicants must have had considerable experience in all aspects of quantity surveying on both building and civil engineering works. Also, ASSISTANT QUANTITY SURVEYOR, preferably qualified. Required for Taking-off and Final Account duties in Newcastle office. Superannuation scheme in operation.—Write, stating age, qualifications, brief details of experience and salary required, to MERZ & McLELLAN, Consulting Engineers, Carliol House, Newcastle-upon-Tyne, 1, quoting reference S.A.R.

**CHARTERED QUANTITY SURVEYORS** near Euston, Kings Cross, etc., Require SENIOR ASSISTANT. £1,500 p.a.—Write particulars, Box 5201, "The Builder."

**CHARTERED QUANTITY SURVEYOR** (Victoria) Requires an ASSISTANT of about intermediate standard to join small, busy office giving scope for wide experience in the office and on site.—Write, usual particulars, to Box 5211, "The Builder."

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**ASSISTANT QUANTITY SURVEYOR** of Intermediate R.I.C.S. or equivalent standard. Required by Westminster Quantity Surveyors.—Write, stating age, experience and salary required, to Box 956, "The Builder."

**SENIOR QUANTITY SURVEYOR**, A.R.I.C.S. preferred, by small firm Chartered Quantity Surveyors, Westminster. Luncheon vouchers, pension and life insurance.—Apply, giving brief particulars, Box 5231, "The Builder."

## SURVEYORS

**BUILDERS' ESTIMATING SURVEYOR** Required near Reading. Experienced in dealing with estimates from enquiry to final account. Must be capable of organising and supervising his own jobs and working on his own initiative.—Reply giving full particulars of experience, references, age and salary required, Box 940, "The Builder."

**MEASURING SURVEYOR** Required by Quantity Surveyors', Westminster, for work in the London area. Salary according to qualifications and experience and reviewed regularly. Luncheon vouchers, pension scheme.—Apply, stating age and experience, to Box 936, "The Builder."

**MEASURING SURVEYOR** Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required, to Box 937, "The Builder."

## ESTATES DEPARTMENT SURVEYOR

required by

**TESCO STORES LIMITED**
**DELAMARE ROAD, CHESHUNT**

The most progressive self-service and supermarket organisation in the country need a Surveyor for supermarket planning, building alterations, etc., capable of site surveys and having drawing board experience. Knowledge of shopfitting an advantage. Good prospects. Canteen facilities. Salary according to qualifications and experience.

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& CO. LTD.

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## MEASURING SURVEYOR

to work initially in the East London Area. This permanent position carries an attractive salary, good annual bonus, together with excellent opportunities for advancement. A younger person with site experience would be considered.

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**Chief Surveyor, Peel Street, Kensington, London, W.8**

## A. E. A. PROWTING LIMITED

**require a**

**SURVEYOR** with considerable estimating experience to take charge of Planning Division together with an

**ASSISTANT** fully versed in taking off quantities and materials schedules for Housing and Flat developments.

Also required is a

**MEASURING SURVEYOR** to deal with site measurement on the above type of development in addition to normal Contracts, used to dealing with Sub-contractors of all trades.

All posts are permanent and pensionable after probationary period and the successful applicants will be based at our Head Office.
Salaries by arrangement. Applicants for all posts should be in possession of a Driving Licence.

*Apply in writing to:—*

**Breakspear House, Bury Street, Ruislip, Middx.**

## HUMPHREYS LIMITED

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# BONUS & COST SURVEYORS

for London contracts. Permanent positions based on London office. Experience of major contracts desirable.

Apply in writing stating age, experience, etc. to:

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**HUMPHREYS LIMITED,**
**199, Knightsbridge,**
**London, S.W.7.**

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# ESTIMATING SURVEYOR

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**London, W.1**

## HUMPHREYS LIMITED

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# SENIOR SURVEYOR

capable of handling all surveying duties on major contracts in excess of £1M.

Permanent position based on London Office.

The successful applicant must have exceptional initiative and ability to make full use of all the modern techniques employed by the Company.

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**Personnel Department,**
**199, Knightsbridge,**
**S.W.7**

**SITE MEASURING SURVEYOR** Required for contracts, 25 miles radius Basingstoke, permanent.—Write, giving full particulars, Box 982, "The Builder."

**SURVEYOR** Required by London Quantity Surveyors mainly for measuring variations, preparation of interim valuations and final accounts for varied building contracts. Occasional travelling. Salary £900-£1,200 according to ability.—Please write, giving full particulars, to Box 990, "The Builder."

**RESIDENT SURVEYOR** wanted by London Quantity Surveyors for large contract in North West England, duration about three years. Must be very experienced and thoroughly acquainted with Final Account work. Details of experience, age, and salary required, to Box 993, "The Builder."

**MEASURING SURVEYORS** Required in Chartered Quantity Surveyors' office where high professional standard is maintained. Good salaries paid to experienced and competent persons. Luncheon vouchers, pension and life insurance schemes in operation.—Apply by telephone, Chancery 5841, Reference S.D.M or in writing, to Box 914, "The Builder."

**BUILDER'S SURVEYOR** Required, with estimating experience, for general Contractor's office in West Middlesex.—Box 4886, "The Builder."

**SITE MEASURING SURVEYOR** Required for contracts Barnet, North London area. Permanent position.—Write details to Box 933, "The Builder."

**MEASURING SURVEYORS,** capable of preparing interim valuations and final accounts, Required by firm of Chartered Quantity Surveyors in the North Midlands to work from head office or branch offices at Stafford or Banbury. Salary according to experience. Five-day week. Participation in non-contributory pension scheme after period of satisfactory service in addition to the state scheme.—Apply, giving full particulars and salary required, to Box 5037, "The Builder."

**CHARTERED SURVEYORS** Require BUILDING SURVEYOR (R.I.C.S. qualification), age 25, with experience of site surveys, drawings, specifications and supervision of building works. Salary according to qualifications. Car allowance. Unfurnished flat available.—Write, SEDGWICK WEALL & BECK, 18-20 High-street, Watford.

**SURVEYOR/ESTIMATOR.** experienced, Required. Interesting position for the small works department of the London branch of FASSNIDGE SON & NORRIS.—Reply, stating age, experience and salary required, to Head Office, 222 High-street, Uxbridge, Middlesex. Box 5070, "The Builder."

**MEASURING SURVEYOR.** Pleasant working conditions, good salary and pension scheme. Must be prepared to travel Midlands/South Coast. Interesting jobs of about £50,000 complete remeasures. Must negotiate sub-contractors' accounts, valuations and final accounts.—OPUS, Ltd., 20 Telford-avenue, London, S.W.2.

**MEASURING SURVEYOR** on W.D. Schedule Required by Chartered Quantity Surveyors (full or part-time).—Apply MESSRS. HARRIS, ROURKE & SIMPSON, City Chambers, 35 Catherine-street, Salisbury, Wilts. Tel.: 4914.

**SURVEYOR** Required N.W. London experienced in general duties, site measuring, valuations, final accounts. Please state full experience and age.—Box 5156, "The Builder."

**SENIOR and JUNIOR MEASURING SURVEYORS** Required for work in Norfolk and Suffolk.—Particulars and salary required, to Box 5174, "The Builder."

**ERIC LYONS** Requires young SURVEYOR with knowledge of building construction to act as personal assistant to surveyor in pleasant and busy architect's office.—Please state age, experience and salary required, to Mill House, Bridge-road, Hampton Court, Surrey.

**JUNIOR BUILDING SURVEYOR** Required. Opportunity to gain further experience, particularly in connection with new development schemes.—Write, stating age and previous experience, to LAWSON & CO., Chartered Surveyors, 40 Brook-street, London, W.1.

**MEASURING SURVEYOR** Required for valuations and final accounts and also for taking-off materials for ordering.—A. T. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

**SITE MEASURING SURVEYOR** Required by Quantity Surveyors in South Kensington. Salary com. £800-£900 according to ability. Five-day week. L.V.s. Sliding holiday scale, two weeks this year. —Box 5234, "The Builder."

## BERNARD SUNLEY & SONS LTD.

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# SENIOR SITE SURVEYORS

**for Contracts in the London Area**

Top grade, experienced Contractors' Surveyors aged 30–45 only should apply. Car allowance and assistance with housing if necessary. Pension Scheme and permanent progressive appointments offered to suitable candidates. Commencing salary commensurate with experience and ability.

Apply to Chief Surveyor,
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**Hemel Hempstead, Herts.**
(BOXMOOR 7070)

## TROLLOPE & COLLS LIMITED

Invite applications for

# BONUS SURVEYORS

fully experienced in the measurement and preparation of bonus and cost returns. Applications, giving full particulars of qualifications, experience and salary required, should be sent to:

The Assistant Secretary,
**Trollope & Colls Limited**
1, Noble Street,
Gresham Street,
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## WEST & SONS (LEEDS) LTD.

*Building & Civil Engineering Contractors,*
'HUGHENDEN', ROOMS LANE,
MORLEY, LEEDS

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# Experienced BUILDERS' SURVEYOR

**at their Head Office**

Four-figure salary and car allowance for suitable applicant. Pleasant working conditions. Canteen. 4½ miles from City Centre.

Write in confidence, stating age, experience and present salary.

## COST AND BONUS SURVEYOR

Required for London area building contracts. Must be fully conversant in measuring all trades.

Apply giving details of age, experience, to:

**Chief Surveyor,**

**GRIGGS & SON LTD.,**
**56, Victoria Street,**
**London, S.W.1.**

## SITE QUANTITY SURVEYORS

required for measuring variations, preparing interim certificates and final account.

The surveyors required are expected to be capable of working under their own initiative and should be experienced.

This position is progressive with excellent prospects in a variety of work.

Applications giving details of age and experience to:

**Box No. 5299, "The Builder"**

**BUILDING SURVEYOR** capable of running contracts between £10,000 and £300,000. Required for permanent position with an expanding organisation. Pension scheme is in operation.—HUMPHREYS, Ltd., Market-road, Plympton, Plymouth.

**JUNIOR BUILDING SURVEYOR** Required, in early twenties. Must have attained O.N.C. or H.N.C. in Building. Good opportunity to learn profession and obtain L.I.O.B.—Write giving details of education, training in builder's office, age and salary required, to R. J. ADAMS, Ltd., 11/12 Finsbury-square, E.C.2.

**PLASTERING CONTRACTORS** in South-West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary, to Box 928, "The Builder."

**BUILDERS' SURVEYOR** Required for well-established firm in Coventry district. Experience with Bonus Costing essential. Progressive position for man able to work with initiative. Salary by arrangement. Present staff advised.—Please write, with details, to Box 5327, "The Builder."

## A. J. WAIT & CO., LTD.

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## SENIOR & ASSISTANT SURVEYORS

for interesting Contracts in the London & Home Counties area. Salary commensurate with ability. Bonus Scheme. Pension Scheme. Permanency and prospects for the right applicants. Apply in writing, stating age, training, experience and salary required to

**Chief Surveyor,**
**Wellington Crescent,**
**New Malden, Surrey.**

CUBITTS

## APPOINTMENTS

*— see pages 64 and 65*

## GALBRAITH BROS. LTD.

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energetic and capable

## SENIOR SURVEYOR

Excellent opportunity and good salary to a man experienced in all types and sizes of work.

Apply: **Chief Surveyor,**
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an expanding company executing contracts in Southern Counties, have a vacancy in their Contracts Department at Caterham, Surrey, for a man aged 25-35. He must have had experience in a Building Contractors' office and be able to carry out and supervise all phases of: measurement and settlement of sub-contractors, accounts, agreement of interim valuations and preparation of final account. The post will carry a progressive salary commencing £850–£1,000, permanent staff pension rights, car and assistance with housing, if required.

Apply, stating age, education, experience, previous employer (in confidence) and commencing salary required to:

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**Croudace Ltd.,**
**97, Godstone Road,**
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Leading firm of Building and Civil Engineering contractors invite applications from

## COST SURVEYORS

for bonus and costing duties on contracts in the London area.

The positions are permanent, and offer good scope for progress. Superannuation and staff bonus schemes in operation.

Apply, in confidence, stating age, experience in detail, and salary required, to:

**Box CS. 5143, A.K. Advtg.,**
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**ASSISTANT BUILDING SURVEYOR,** aged 20 to 30 Required by City Architects and Surveyors for structural surveys, repairs and alterations, measured drawings and field surveys. Five-day week; salary according to experience.—ALAN W. PIPE & SONS, 8 Queen-street, E.C.4.

**ASSISTANT SURVEYOR** Required for large contract in Hatfield area. Excellent opportunity to gain site experience. Permanent position; superannuation scheme; 5-day week; existing holiday arrangements honoured.—Write, stating age, experience and salary required, to Chief Surveyor, WILLIAM MOSS & SONS, Ltd., North Circular-road, Cricklewood, London, N.W.2.

**ASSISTANT MEASURING SURVEYORS** Required for large building contract in Oxfordshire. Experience of interim valuations, sub-contractors and measuring for final accounts.—Please send full details of age, experience and present salary, to Personnel Officer, M. J. GLEESON (CONTRACTORS), Ltd., Horedon House, London-road, North Cheam, Surrey, quoting reference 005.

**ASSISTANT SURVEYOR** Required by expanding development company for work on the South Coast, based at Bexhill. Should be experienced in site measuring and valuations for sub-contractors and should have some experience in the preparation of material schedules. Excellent opportunity for right person. Non-contributory pension scheme.—Write, giving details, and salary expected to, BUNTING ESTATES, Ltd., 73 Acre-lane, London, S.W.2.

**SURVEYOR** (Resident) Required for 3-year Contract East London. Duties comprise operating bonus scheme, measuring sub-contractors, interim valuations, variations. Knowledge of labour costs preferred.—Apply, Director, stating age and when free, WILLIAM J. JERRAM, Ltd., Sandford Works, East Ham, E.6.

**SUPERVISING SURVEYORS** Required by progressive building contracting company, Weybridge, Surrey. Not more than 35 years of age. Excellent opportunities to men with initiative.—Full particulars to Box 5243, "The Builder."

**BUILDER'S SURVEYOR,** experienced in bonus and site measuring, and final accounts.—Please write stating age and experience, to E. Williams, FREDERICK J. MINNS & CO., Ltd., 23 Commercial-road, Woking.

**BUILDING SURVEYOR,** preferably within the age range 25/35 years and qualified to R.I.C.S. (Building) standard, is Required to join the Surveyor's Department of a large industrial organisation with property spread throughout U.K. Whilst the successful candidate will be based in the Company's headquarters in N.W. London, a certain amount of travelling will be involved. Applicants should have knowledge and experience of structural alterations, heating installations, factory maintenance repairs, etc. The post is pensionable with good prospects and commencing salary will be according to qualifications and experience.—Write with full particulars to Box No. B466, L.P.E., 60/62 St. Martin's-lane, London, W.C.2.

**BONUS SURVEYOR** Required for contracts generally in the East London area.—Apply, giving full particulars of qualifications, experience and salary required, to Mr. G. Marney, A. E. SYMES, Ltd., Albert House, 236, High-street, Stratford, E.15.

**SENIOR and SITE SURVEYORS** Required for Manchester area for Contracts due to commence. Permanent and progressive pensionable position with commensurate salary.—Full details to: Chief Surveyor, W. J. SIMMS, SONS & COOKE, Ltd., 396 Wilmslow-road, Manchester 20.

**A VACANCY** occurs for MEASURING SURVEYOR in Quantity Surveyors' Plymouth office.—Apply, in confidence, stating age, experience and salary required, to Box 5274, "The Builder."

**TOKEN CONSTRUCTION COMPANY LTD.**

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## MEASURING SURVEYOR

for contracts in the North Midland Area. Knowledge of all trades from initial stages to final account. Position permanent and pensionable. Applicants write, stating age, previous experience and salary required to:— **Personnel Director,**
**68, Mount Street, London, W.1**

## EXPERIENCED SURVEYOR

**required.**

Sound knowledge of the Industry essential.

This position is permanent, progressive and pensionable with top salary for successful applicant.

Details of experience, etc., to:

**Box No. 5354, "The Builder"**

# BUILDING SURVEYOR
## (Sub. Div. 3b)

required by well-known ESTATE CO. (Kingston/Sy) to take ENTIRE CHARGE of Department dealing exclusively in NEW DEVELOPMENT of medium-price houses and maisonettes. Must be THOROUGHLY EXPERIENCED, confident and able to advise, control and plan stages of "Virgin Land" to "open-the-front-door". Great opportunity for a live, hardworking member seeking a secure, permanent and pensionable position. Write—

**Box No. 5309, "The Builder"**

# BUILDING SURVEYOR

Building Surveyor aged 25-30 required for Contracts in London Area. Must be experienced in site measurement, settlement of Sub-Contractors accounts, preparation of interim and final accounts. The position also entails the supervision of small and medium contracts.

This position is permanent and pensionable and offers excellent prospects. A car will be provided. Applications stating age, details of experience and salary required should be addressed to:

**STANLEY HUGH LEACH LTD.,**
**Yeading Lane, Hayes, Middx.**

# SURVEYORS AND ASSISTANT SURVEYORS

Experienced in speculative housing development required for position at the Head Office in Potters Bar. The positions offered are progressive, carry good salaries and excellent prospects. Write, stating age, experience, salary required to:

**The Chief Surveyor,**
**McMANUS & CO. LTD.,**
**Orchard House,**
**Potters Bar, Middlesex.**

# EXPERIENCED SURVEYORS

**REQUIRED**

Applicants must have thorough knowledge of Surveying from commencement of contract to final settlement, on varied types of contracts up to £150,000.

Progressive appointment. Staff Bonus and Pension schemes in operation.

Apply in writing giving details of experience and salary required to

**The Manager, Walter Lilly & Co. Ltd.,**
**Westminster, S.W.1**

# CONTRACTS SURVEYOR

Required by a rapidly expanding firm of Building Contractors. Must be experienced and will be responsible for the planning and administration of large-scale contracts. Excellent opportunities for further advancement to a man with a good technical education, who is willing to work hard and progress with a go-ahead firm with a modern outlook. Anticipated age group 25–30. Realistic salary, annual bonus, this year's holiday arrangements honoured. Apply in writing, in first instance, to:

**G. T. CROUCH LTD.,**
KINGSTON HOUSE, STEPHENSON WAY,
THREE BRIDGES, CRAWLEY, SUSSEX.

**TOKEN CONSTRUCTION COMPANY LTD.**

require

# BONUS SURVEYORS

for all types of contracts in the London Area. Good salaries paid and all positions are permanent and pensionable. Write, stating age, previous experience and salary required, to:

**Chief Surveyor,**
**68, Mount Street, London, W.1**

**YOUNG MEASURING SURVEYOR** Required. Permanent progressive position for keen applicant, competent in preparing site records and costs.—FAIRWATER CONSTRUCTION Ltd., Fairways-crescent, Fairwater, Cardiff.

**MEASURING SURVEYOR** Required, with sound knowledge of W.D. Schedule, for contracts in Lincolnshire. Full- or part-time. Excellent opportunity.—Reply, giving full particulars, to Box 5280, "The Builder."

**YOUNG COMPETENT MEASURING SURVEYOR** for preparation of Sub-Contractor's final accounts. Knowledge of Standard Form of Measurement.—Apply, Box 5295, "The Builder."

**SURVEYOR** Required for expanding City Building Contractors. Must be experienced in all aspects of measuring, interim and final account. Permanent position with excellent prospects for right man. Luncheon vouchers, good salary.—Apply, stating age, experience, to Box 5288, "The Builder."

**SURVEYOR/DRAUGHTSMAN** Required, site surveys, site layouts, road and sewer sections, negotiating with all service undertakings.—Particulars or 'phone for appointment to TRUSTEEL CORPORATION, Lime Lodge, Heath-road, Oxhey, Watford, Herts. (Watford 26256).

## ASSISTANT SURVEYORS

**ASSISTANT** Required for Surveyor and Estimator with contractors in Brentford. Some experience necessary.—Apply, Box 5245, "The Builder."

**BUILDING SURVEYOR'S ASSISTANT** Required for Small Contracts Department of progressive Building Contractors in Surrey and Sussex. Age 20-25. Excellent opportunities for right candidate.—Write giving details of experience, education and salary required, to: G. T. CROUCH, Ltd., Small Contracts Dept., Barnett Wood-lane, Leatherhead, Surrey.

**ASSISTANT SURVEYOR** Required for measuring Sub-contractors' work, valuations, final accounts, etc., for sites in the London area.—Apply, giving full details of experience, salary required, etc., to R. MANSELL, Ltd., Grant-road, Croydon.

**YOUNG ASSISTANT** attending technical college Required as PERSONAL ASSISTANT to North West London Chartered Quantity Surveyor. Time off for study to conscientious applicant. Excellent opportunity to gain all-round experience.—Write to L. M. BRENNER, F.R.I.C.S., Vivian House, 166 Hampstead-way, N.W.11.

**HUMPHREYS LTD**
**require**

# ASSISTANT SURVEYOR

Capable of relieving the burden of Senior Surveyor handling major contracts in excess of £1M.

Permanent position based on London office, but particularly suitable for applicant residing between London and Brighton.

Apply in writing, stating age, experience and salary required, to:

**Personnel Department,**
**199, Knightsbridge, S.W.7**

# ASSISTANT

age 22-35, required for Premises Department. Must be able to prepare schemes, specifications, carry out surveys and be a good draughtsman. Good commencing salary, with additional Bonus. Pension Plan. *Please write giving fullest details of age, experience, etc., to:*

**Personnel Manager,**
**THE NATIONAL CASH REGISTER CO. LTD.**
**206-216 Marylebone Road,**
**London, N.W.1.**

# ASSISTANT SURVEYOR

This position offers every opportunity for advancement for an Assistant Surveyor, together with a first-class knowledge of the Industry from enquiry to final account. Good salary, Pension Scheme, etc.

Write please to:

**Box No. 5353, "The Builder"**

## JUNIORS

**JUNIOR ASSISTANT** Required in small Quantity Surveyor's office.—Apply in writing with full details, to IBBOTT AND BURKE, F/F.I.Q.S., 8 Ely-place, E.C.1.

**JUNIOR ASSISTANT** for buying department. Progressive position for suitable applicant.—Apply, with full particulars, to HAYMILLS (CONTRACTORS), Ltd., Hanger Green, Western-avenue, W.5. (Adjoining Park Royal station.)

**JUNIOR TRAINEE QUANTITY SURVEYOR** Required by Westminster Quantity Surveyors.—Write, giving particulars, to Box 958, "The Builder."

**JUNIOR** Required in West Central London Chartered Quantity Surveyor's office. Good opportunities for keen young man prepared to sit for R.I.C.S. examinations. State in own handwriting age, education and examination results.—Box 5358, "The Builder."

## TAKERS OFF

**TAKER-OFF, Final standard, Required by Quantity Surveyors, Westminster. Good salary, luncheon vouchers.** No Saturdays.—Apply, Box 929, "The Builder."

**SENIOR TAKER-OFF for responsible position in busy Quantity Surveyors' office, Westminster. Salary commensurate with responsibility. Luncheon vouchers, pension scheme.—Brief details to Box 931 "The Builder."**

**TAKERS-OFF** Required by London Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 974, "The Builder."

**MANCHESTER QUANTITY SURVEYORS**

Require

**TAKERS-OFF**

**Salary £1,250—£1,500 per annum.**

Superannuation scheme after trial period.

Bonus scheme.
Holiday this year.

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**TAKERS-OFF** Required in Chartered Quantity Surveyors' office on work which is varied in nature. Good salaries will be paid to persons who will maintain the high professional standard of the office. Luncheon vouchers, pension and life insurance schemes in operation.—Apply by telephone, Chancery 5841. Reference S.D.M., or in writing, to Box 910, "The Builder."

**TAKERS-OFF** Required by City firm of London Chartered Quantity Surveyors.—Apply, giving age, experience and salary required, Box 5031, "The Builder."

**NEWCASTLE AREA.** Experienced TAKER-OFF Required by Chartered Quantity Surveyors. Pension scheme. Luncheon vouchers. Salary up to £1,200 per annum.—Apply, in writing, giving details of experience, to MESSRS DAVIS, BELFIELD & EVEREST, Chartered Quantity Surveyors, 56 West-street, Gateshead 8, Co. Durham.

**SMALL FIRM** of Purley, Surrey, Chartered Quantity Surveyors Require JUNIOR TAKER-OFF (final standard). Pleasant working conditions.—Telephone: BYWood 1491 for appointment.

**TAKERS-OFF** Required by London Quantity Surveyors. Salary scale £900-£1,500 per annum, according to ability, plus overtime.—Please write giving details of experience, age, etc., to Box 5094, "The Builder."

**MESSRS. OSWALD E. PARRATT** Require TAKERS-OFF, Senior and Junior, and also WORKERS-UP for their Harlow office. Five-day week, pension scheme. Housing accommodation may be available.—State age, experience and salary required, to 20 The Rows, Stone Cross, Harlow, Essex.

**JUNIOR TAKER-OFF** Required by West End Chartered Quantity Surveyor with 2 or 3 years' experience of taking-off. Salary £900 to £1,000.—Reply in writing stating age and experience, to Box 5152, "The Builder."

**TAKER-OFF** Required by Chartered Quantity Surveyors. City area. Salary up to £1,200 per annum according to age and experience.—Box 5157, "The Builder."

**EXPERIENCED TAKER-OFF** Required.—Apply giving age, experience, salary required, to E. F. STEVENS, 49/50 Maybury-road, Woking.

**C. R. WHEELER & PARTNERS,** Chartered Quantity Surveyors, have vacancies for two SENIOR TAKERS-OFF.—Please write, stating age, experience and salary required, to 8 Symons-street, Sloane-square, S.W.3.

**EXPERIENCED TAKERS-OFF** Required by professional firm for large branch office in South Bucks.—Write, stating age, experience and salary required, to Box 5206, "The Builder."

**JUNIOR and SENIOR TAKERS-OFF** and MEASURING SURVEYORS Required in City and Ashford (Kent) offices of Chartered Quantity Surveyors. Five-day week, holiday arrangements honoured. Salary commensurate with experience.—Box 5207, "The Builder."

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**JUNIOR TAKERS-OFF** Required by Quantity Surveyors in South Kensington. Intermediate/Final standard. Keen and energetic, as personal assistants to senior staff. £650-£750 according to ability. L.V.s, 5-day week. Sliding holiday scale, two weeks this year.—Box 5236, "The Builder."

**CHARTERED QUANTITY SURVEYORS** Require TAKER-OFF, A.R.I.C.S., for medium-sized varied London practice. High salary scales paid to suitable applicants with security and prospects. Only Takers-off willing to take responsibility and work hard and efficiently for a salary above average, need apply.—Please write, Box 5255, "The Builder."

**LONDON CHARTERED QUANTITY SURVEYORS** Require young, keen TAKERS-OFF, of Final R.I.C.S. standard, with good prospects in expanding practice.—Full details of experience, to Box 5270, "The Builder."

**A. S. WILSON AND PARTNERS,** Chartered Quantity Surveyors, Require TAKERS-OFF and WORKERS-UP in London and Provincial branches.—Apply, stating experience, to 8 Storey's-gate, Westminster, S.W.1.

**TAKER-OFF,** age 30. Salary £1,200. More dependent upon experience. Five-day week.—Box 5271, "The Builder."

**JUNIOR QUANTITY SURVEYOR** Required by professional office in West End. At Intermediate examination stage, to work under supervision of Chartered Senior. Salary in the range of £500 per annum. Five-day week. Overtime at time and half.—Box 5272, "The Builder."

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**JUNIOR TAKING-OFF ASSISTANT** Required for responsible position in speculative building company. The appointment is permanent and pensionable. Salary commensurate with ability. L.V. scheme.—Apply PERCY BILTON Ltd., Housing Division, 54-58 Uxbridge-road, London, W.5.

**TOP PEOPLE** Required for top jobs in not very top firm of London Quantity Surveyors. Age 30-35. Top salary.—Box 5326, "The Builder."

**TAKER-OFF** Required by Quantity Surveyors in Gloucester. Pension and sickness insurance scheme. Five-day week.—Reply, stating age, qualifications and salary required, to Box 5315, "The Builder."

**TAKER-OFF,** R.I.C.S. Final standard, Required by small West Central London Chartered Quantity Surveyors. Salary range £1,000-£1,200 according to experience. Holiday dates honoured.—Write details of experience, age, when available for interview, to Box 5357, "The Builder."

**SENIOR ASSISTANT** Required by London firm of Chartered Quantity Surveyors. Permanent position with high level of remuneration. Luncheon vouchers and pension scheme. Applicants should give details of age, experience and salary required. Box 5344, "The Builder."

**CHARTERED QUANTITY SURVEYORS** Require SENIOR ASSISTANT in their London office. Salary up to £1,700 per annum according to age and experience. Luncheon vouchers and pension scheme.—Applicants are requested to write to Box 5345, "The Builder."

**JUNIOR TAKER-OFF** Required by London firm of Chartered Quantity Surveyors. Salary £750-£1,000 for five-day week. Luncheon vouchers, overtime payments and pension scheme.—Please apply, stating age and experience, to Box 5346, "The Builder."

## WORKERS UP

**EXPANDING FIRM OF QUANTITY SURVEYORS,** Westminster, have vacancies for WORKERS-UP, with four years' experience or longer. Luncheon vouchers, pension scheme.—Apply to Box 938, "The Builder."

**WORKERS-UP** Required, Senior and Junior, for office of Chartered Quantity Surveyors in the Holborn area.—Box 950, "The Builder."

**QUANTITY SURVEYORS** in Westminster Require JUNIOR WORKER-UP. Opportunities of progressing through training to more senior position.—Please reply, stating age, experience and salary, to Box 963, "The Builder."

**SENIOR WORKER-UP** Required by London Quantity Surveyors. Permanent position and good salary offered. Life assurance and pension scheme.—Write giving details of age, experience, etc., Box 5027, "The Builder."

**SENIOR WORKER-UP** Required by City firm of Quantity Surveyors. Basic commencing salary £1,000 per annum. Five-day week. Pension scheme.—Full details to Box 5028, "The Builder."

**SENIOR WORKER-UP** Required by Chartered Surveyors, Westminster, to take charge. State experience, age and salary required.—Box 5093, "The Builder."

**FIRM** of Chartered Surveyors have a vacancy for an experienced permanent Worker-up. Luncheon vouchers. Five-day week. Overtime paid and holiday bonus. Salary according to experience but opportunity to earn over £1,000 p.a.—Box 922, "The Builder."

**LONDON** Chartered Quantity Surveyors Require JUNIOR and SENIOR WORKERS-UP.—Apply, to WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, W.C.1. TER 1107.

**WORKERS-UP** Required for offices in London and Kingston, with opportunity for advancement. Luncheon vouchers, pension scheme, holiday this year.—Please apply, stating age, experience and salary, to ERIC G. LYNDE & PARTNERS, 41 Russell-square, London, W.C.1. LANgham 1798.

**SENIOR WORKER-UP** Required by London Quantity Surveyors, to take charge of department. Three weeks' holiday per annum.—Write, stating age, experience and salary required, to Box 955, "The Builder."

**WORKER-UP,** experienced, Required by Quantity Surveyors in South Kensington. Salary £650-£800 according to experience. L.V.s, 5-day week. Sliding holiday scale, two weeks this year.—Box 5235, "The Builder."

**SENIOR WORKER-UP** Required for London Chartered Quantity Surveyors. Security for right applicant willing to make working-up his career. Good salary in return for hard work and competence.—Please write, stating age, experience and salary required, to Box 5256, "The Builder."

**WORKER-UP,** with about 3 years' experience, Required by an expanding Surrey firm. Excellent opportunities of advancement and to earn high salary. Non-contributory pension scheme, bonus and pleasant provincial offices.—Apply, giving full details of previous training to Box 5247, "The Builder."

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**WORKER-UP** Required for medium-size Quantity Surveyors office in Victoria area. Good prospects; luncheon vouchers; non-contributory pension scheme.—Write stating age, experience and salary required to Box 5355, "The Builder."

**WORKER-UP** Required by firm of Chartered Quantity Surveyors for long term contract at Newport, Mon. Rented accommodation available.—Please apply stating age, experience and salary required, to Box 5347, "The Builder."

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**WM. C. INMAN & PARTNERS** Require a WORKER-UP with not less than 3 years' experience. Good salary and opportunity for advancement. Holiday arrangements honoured. Five-day week. L.V.s.—'Phone Chancery 9152 or write for appointment to 7 New Square, Lincoln's Inn, W.C.2.


**FREDERICK S. SNOW & PARTNERS**

CONSULTING ENGINEERS

have vacancies on their permanent staff for

**SENIOR WORKERS-UP**

**and**

**WORKERS-UP**

in their expanding Quantity Surveyors Dept. This department, which is approved by the R.I.C.S. and I.Q.S., is in a new building at 71, Southwark Street, London, S.E.1.

Five-day week, Luncheon Vouchers, Superannuation.

Please reply in writing stating age, experience, qualifications and salary required to:—

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**'Ross House',**
**144, Southwark Street,**
**London, S.E.1**


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**STRUCTURAL ENGINEER** Required to take charge of Consulting Department in a large Architects' office. Sound structural knowledge and imaginative outlook a necessity.—Apply stating experience and salary required, to Box 5252, "The Builder."


**Setting Out ENGINEERS**

We have several vacancies in the Midlands Area on Civil Engineering and Building Contracts for young Engineers age about 26 years with several years experience on similar Contracts with reputable Contractors. We offer good terms and conditions and prospects for rapid promotion. Apply to

**Wilson Lovatt & Sons Ltd.,**
**Clarence Street, Wolverhampton.**



**PLANNING ENGINEER**

required

to deal with all aspects of the planning of Building Contracts from initial stages to operational programming, plant installation, development and application of constructional technique, etc.

Also

**TRAINEES**

with sound experience of building work, either management or design, or operatives having genuine interest in this work.

*Apply with details to Personnel Department.*

**HUMPHREYS LTD.,**
**199 KNIGHTSBRIDGE, S.W.7.**

**APPLICATIONS** are invited from suitably qualified Civil Engineers for the position as ENGINEER/AGENT on a large Flour Mill in the North West. The works comprise structural steelwork, in situ reinforced concrete, and a unique method of erecting silos in precast units. Salary up to £1,600.—Applications, stating age, experience, qualifications and salary required, to Box 5249, "The Builder."

**PLANNING AND PROGRESSING BUILDING and CIVIL ENGINEERING CONTRACTS.** This vacancy calls for a training in the industry to H.N.C. or L.I.O.B. standard with a full knowledge of B. of Q. specifications and drawings and some site organisation, to prepare progress charts and schedules for new contracts.—Applications should state fully age and history, to: WILSON LOVATT & SONS, Ltd., Clarence-street, Wolverhampton.

## ESTIMATORS

**ESTIMATOR** for small works department Required by Builder in Croydon area. Applicant to have initiative and able to prepare own specifications. Progressive post for suitable applicant.—Box 5025, "The Builder."

**ASSISTANT ESTIMATOR** Required to assist Senior Estimator, by Building and Civil Engineering Contractors engaged in major works up to £250,000. Applicants should be L.I.O.B. or I.Q.S., Intermediate standard, and have experience of Taking-off and Surveying. The position, which is permanent and progressive, is at the head office of CHARLES R. PRICE, Kingsbury-road, London, N.W.9.—Write, giving full particulars, to above address.

**SENIOR GRADE ESTIMATOR** Required. Considerable experience in the Building Industry necessary. Based in London area. Excellent prospects and conditions for the right man.—Box 5145, "The Builder."

**ESTIMATOR/SURVEYOR** Required, capable of handling small contracts from enquiry to final account. Good prospects for keen, energetic young man to join team in an expanding company.—Reply, stating age, experience and salary required, to Box 5228, "The Builder."

**ASSISTANT PAINTING ESTIMATOR/SURVEYOR** Required by well-known Contractor.—Write stating age, experience and salary required, to Box TB538, c/o Hanway House, Clark's-place, E.C.2.

**ASSISTANT PLASTERING ESTIMATOR/SURVEYOR** Required by well-known Contractor.—Write stating age, experience, and salary required, to Box TB539, c/o Hanway House, Clark's-place, E.C.2.

**ESTIMATOR/MANAGER** Required. Fully experienced in alteration and conversion work, to take charge of new department operating in London area.—Replies, in writing, giving fullest particulars and salary required, to STIRTON PARTNERS, Ltd., 28 Victoria-street, London, S.W.1.

**ESTIMATOR** Required by old-established and rapidly expanding firm of Building and Civil Engineering contractors. Candidates must have had at least 10 years' successful experience in tendering for contracts up to £500,000, both in Building and Civil Engineering, and be fully conversant with modern methods of analysis of rates and be capable of working with minimum supervision.—Apply, in confidence, giving full details of experience, age and salary required, to WM. EAVES & CO., Ltd., Vicarage-lane, Blackpool.

**INDUSTRIAL DEVELOPMENT & CONSTRUCTION LTD.**

**require**

# CHIEF ESTIMATOR

at Head Office, Stratford-upon-Avon. Preferably aged over 35. Candidates must have considerable experience of pricing bills of quantities up to £750,000, primarily on industrial and commercial work.

This is a progressive appointment which offers excellent scope for advancement, to a man with ability who is prepared to work hard.

Comprehensive staff pension and life assurance scheme, attractive salary. Apply in writing giving full details of experience and present salary to:

**Managing Director,**
**Industrial Development & Construction Ltd.**
**Industrial House,**
**Stratford-upon-Avon.**

**SHEPHERD**

*A well established group of companies employing over 2,500 people and responsible for a wide variety of building and civil engineering work in Yorkshire, Lancashire and the North-Eastern Counties offers an exceptional opportunity for a*

# TRAINEE ESTIMATOR

Applicants, between the ages of 21 and 28, must have attained H.N.C. in Building or L.I.O.B., should have had some experience of quantity surveying, and must have a genuine aptitude for and interest in estimating.

The successful applicant will become a permanent member of a highly developed and busy Estimating Department at our Head Office in York and will receive thorough and comprehensive training under expert guidance and supervision.

The position offers a good progressive salary, annual bonus and non-contributory pension together with a five day week and three weeks annual holiday. Existing holiday arrangements will be honoured and assistance with housing will be available if required.

*Written applications, stating age, details of experience and qualifications and some indication of commencing salary required, should be addressed for the personal attention of:*

**D. Ransome, F.I.Q.S., F.I.O.B.,**
**Director and Chief Quantity Surveyor,**
**F. SHEPHERD & SON LTD.,**
**Building and Civil Engineering Contractors**
**Blue Bridge Lane, York.**

**DRABBLE CONSTRUCTION LTD.**

*require an*

# ESTIMATOR

experienced in tendering for building and civil engineering work up to £250,000. Superannuation scheme in operation. Apply, full details, age, experience, salary required to:

*Managing Director,*
**Drabble Construction Ltd.,**
**1 Cannon Street, Wellingborough,**
**Northants.**
Tel. W'boro' 3441.

# ESTIMATOR/ SUPERVISOR

Required for alterations and good class decorations.

The applicant should be aged about 30 and have had some years of experience with a West End of London Firm.

A high standard of estimating experience and ability to organise contracts up to £10,000 in value required.

We operate an annual bonus scheme and non-contributory Pension arrangement.

Will applicants please send details of age and send a chronological list of experience, training and positions held to

**Box No. 5155, 'The Builder'**

**ESTIMATOR**

required for interesting and varied tendering for building contracts over a wide range of price. Knowledge of modern methods of construction essential. The position is permanent and carries a substantial salary and bonus, also entry into superannuation scheme after probationary period. Applicants should write, stating age, qualifications, experience to date, etc., to:

**Chief Estimator, The Mitchell Construction Company Ltd., 'T' Department, Wharf Works, Peterborough.** Applications will be treated in the strictest confidence.

# SENIOR ESTIMATOR

required

Fully experienced in pricing all types and sizes of contracts.

Apply:

**Galbraith Bros. Ltd.,**
**Crayford Bridge,**
**Crayford, Kent**
(for attention Managing Director)

## ESTIMATOR/ SURVEYOR

required

for small and medium works.

Apply in writing, stating salary required and when free, to:

**Boyd & Murley Ltd., 87, London Street, Reading**

## ESTIMATOR/SURVEYOR

Required by old-established Building Contractors, East Sussex. Capable of dealing with Contracts from enquiry to final account, with sound all-round experience. Write stating age and salary required.

**Box No. 5286, "The Builder"**

## ESTIMATOR TAKER OFF

required by Thermalon Limited at their Lewisham Offices for interesting work on Thermal insulation. Salary according to experience, excellent opportunities, 5-day week.

Telephone or write to:

**Mr. R. C. Wouldham, 213/223, Lewisham Way, London, S.E.4.**

TIDeway 6688.

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REQUIRE

## ESTIMATOR

Large and well-established Painting Contractors in North West London Area require experienced and energetic Estimator used to industrial work and who has the desire and ability to progress. Age 25/40 preferred. Excellent salary according to experience, plus twice annual bonus on results. Company car supplied and personal use allowed. Present holiday arrangements will be honoured. Applications, which should give full details of past experience, will be treated in strict confidence. Replies to:

**Box No. 4473, "The Builder"**

## ESTIMATOR

Progressive Medium Sized firm in South West England require experienced Estimator to tender for all Building Works from jobbing to £200,000, with minimum supervision.

Permanent and pensionable post.

Write stating age, experience and salary required to—

**Box 5311, "The Builder"**

## THE LONDON FERRO-CONCRETE CO. LTD.

**require a**

## SENIOR ESTIMATOR

experienced in tendering for building and civil engineering work.
Pension Scheme.

Housing—Details at interview.

Apply giving full details, age, experience, and salary required, to—

**Chief Estimator, The London Ferro-Concrete Co. Ltd., Maxted Close, Hemel Hempstead, Herts. Telephone: Boxmoor 3810**

## CONTRACT ENGINEERING

An Experienced

## ESTIMATOR

required for London, E.11 district, in a progressive and rapidly expanding Company engaged in Contracting and Estate Development Projects. Applicants should have a Quantity Surveying background and be able to produce operational plans on which Estimates, Progress and Cost Controls can be based.

Salary in region of £1,200. Pension scheme available. Quote Ref. A932/2 in reply, to:

**INTERNATIONAL MANAGEMENT SERVICE**

*Management Consultants,*

**13 Great Castle Street, London, W.1**

who have been retained to advise on the appointment.

## McLAUGHLIN & HARVEY, LTD.

have vacancies on their permanent staff for:—

## ASSISTANT ESTIMATOR

To work directly under Chief Estimator and to assist in preparation of tenders for all classes of building work.

## ASSISTANT SURVEYOR

To assist in preparation of interim and final accounts.

Please reply in writing, stating age, experience, qualifications and salary required to **24, Highbury Grove, N.5.**

**BUILDING ESTIMATOR** Required with experience in pricing bills of quantities and cost analysis.—Write, with details of experience and salary required, to Building Manager, BRIXABUR BUILDERS, Ltd., 2 Whitfield-street, Gloucester.

**TRAINEE ESTIMATOR** Required for precast concrete works in the Slough-West Drayton area.—Apply stating age, experience and salary required, to Box 5253, "The Builder."

**ESTIMATOR** Required (preferably with experience in precast concrete flooring) by established precast manufacturer in the Slough-West Drayton area.—Write stating age, experience and salary required, to Box 5254, "The Builder."

**ESTIMATOR/SURVEYOR** Required for large and small Contracts, East London and Essex area. Incentive scheme operating. Car provided.—Apply stating age, experience and salary required, to HAINES & WARWICK, Ltd., 12 Bradford-road, Seven Kings, Ilford, Essex.

**BUILDER'S ESTIMATOR and SURVEYOR** Required, capable of estimating and running contracts from £5,000 to £500,000.—Apply RICHARDSON, Herbert House, Slade Green, Erith, Kent.

**ESTIMATOR/SURVEYOR.** Experienced enquiry to final account. Medium-sized contractors.—Barnet 3605.

**ESTIMATOR SURVEYOR,** for well-established and expanding firm, of building contractors. Varied work for small to medium-sized contracts mainly in Greater London area. Good salary, bonus and pension scheme, car provided. There are real opportunities here for a keen young man of integrity, ability and drive.—Reply, stating experience, age and salary required, to COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

**ESTIMATOR/SURVEYOR** Required. Jobs up to £25,000 with small builders in Sutton and Cheam area. Must be experienced and able to work on own initiative. Salary according to experience.—Box 5306, "The Builder."

## BOVIS LIMITED

**require**

## ESTIMATORS

**in their branch offices in north-west London.**

This is a good opportunity for keen young men as the business is expanding and there will be good opportunities for promotion. The position carries a good salary and is pensionable. A staff canteen is available.

**Please write for interview to Ref. MC, 1 Stanhope Gate, London W.1.**

## TOKEN CONSTRUCTION COMPANY LTD.

require

## JUNIOR ESTIMATOR JUNIOR SURVEYOR

for Estimating and Statistic Department; General knowledge of Estimating or Surveying required. Excellent opportunities for advancement for intelligent men. Write, stating age, previous experience and salary required to:

Personnel Director,
**68, Mount Street, London, W.1**

## MANAGERS

**BUILDING CONTRACTORS,** offices Brighton, Require fully experienced CONTRACTS MANAGER, housing and flat contracts.—Apply, giving full particulars of past experience, Box 962, "The Builder."

**CONTRACTS MANAGER.** ASSISTANT Required E.11 area. Good prospects for man with drive and initiative in expanding firm.—Full particulars of previous experience, salary required, etc., to Box 4978, "The Builder."

**BUILDING CONTRACTORS,** Northampton, Require MANAGER, with drive, initiative and organising ability. Good supervisor and preferably a qualified Q.S. capable of expanding well-established business, with view to full management and directorship.—Written application, in first instance, treated in strictest confidence, to Box 5300, "The Builder."

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A well-established group of companies employing over 2,500 people and responsible for a wide variety of building and civil engineering work in Yorkshire, Lancashire, and the North-Eastern Counties has vacancies in their York Division for

### SITE MANAGER—Two

Applicants, preferably between 30 and 45 years of age, should have had previous experience in the capacity of manager, agent or senior general foreman and must be conversant with the technical aspects of most types of building construction. A genuine interest in the application of detailed planning and production control are essential. The successful applicants must be capable of undertaking the management of individual contracts of up to £1,000,000 in value.

### SENIOR QUANTITY SURVEYOR

Preferably between 30 and 40 years of age, with sound training and a minimum of ten years' building contracting experience covering a wide variety of construction work. This is a senior position calling for a man of sound ability and integrity.

These vacancies, which have arisen as a result of internal promotion within the group, offer permanent positions with attractive staff conditions, progressive salary, annual bonus, non-contributory pension scheme, five-day week and three weeks annual holiday. Local travelling will be involved and private cars will be provided. Assistance with housing will be available if required.

Write, giving brief details of age, qualifications, experience and some indication of commencing salary required, to:

Michael F. Shepherd, F.I.O.B.—Director,

**F. SHEPHERD & SON LTD.,**

*Building and Civil Engineering Contractors,*
Blue Bridge Lane, York.

## JOINERY MANAGER

Senior man required for joinery production for building contractor for good class work in softwood and hardwood. Successful applicant would be based in Crawley, Sussex.

Position will carry a good salary and a car will be provided.

Applications should contain full details of experience, training, age, and if possible, names of previous employers.

All information will be treated as confidential and should be addressed to:

**"Managing Director,"**

**Box No. 5103, "The Builder"**

## CONTRACTS MANAGER

Applications are invited for the above position to control private Estate Developments in London and its environs, incorporating Houses, Maisonettes, Flats, Roads and Sewers.

Applicants must have had extensive experience in this type of work supervising Sub-Contract labour, and will be required to produce evidence that they have held a similar position.

Car provided. Generous salary by arrangement. Contributory Pension Scheme after probationary period.

Applications, in first instance, in writing to **General Manager, Lawdon (Builders) Ltd., 157, Victoria Street, London, S.W.1.**

## JOHN LAING AND SON LIMITED

offer interesting and progressive careers to

### Men holding

O.N.C., H.N.C., or H.N.D. (Building) or who are of equivalent standard.
Applicants who are interested in the increasingly important field of

## PRODUCTION CONTROL

will find opportunities for development and promotion in Departments dealing with Progressing, Site Measurements, Method Study, Labour and Material Control and Analysis.
Encouragement given for study, Superannuation Scheme.

*Applications stating age to:—*

**Group Personnel Manager (P.C.6), John Laing and Son Limited, London, N.W.7.**

## Contracts Manager

required by National Group of Building Contractors.

Applicants must possess first-class ability and experience.

Car provided. Generous Salary. Superannuation Scheme after probationary period. Please write in first instance to:

**Box No. 5336, "The Builder"**

Applications are invited from men in the age group 30–40, for the position as

## MANAGER

of a Precast Concrete Works which is about to be formed as a subsidiary to a Contracting Organization in the North West.

Applicants must be able to plan the works from the outset, and have some knowledge of reinforced concrete design, and considerable experience in the design of form work. Some knowledge of prestressed work would be advantageous.

Salary up to £1,600.

Reply stating age, experience, qualifications, and salary required to:

**Box No. 5250, "The Builder"**

First class opportunities with good salaries and conditions exist in newly formed medium sized works department of national contractor. Building Managers and Assistants able to run jobs efficiently, profitably, and completely from estimate to final account. Based on Kingston, Surrey. Write in complete confidence to

**Box No. 5266, 'The Builder'**

**Old established**
**Medium-sized Building Contractors**

require an

### ENERGETIC

## Ambitious Man

in the forties to manage their small works and Maintenance department. The applicant who must have had previous experience of this type of work from enquiry to final account, must be able to preplan and properly organise work and control staff.

This situation is permanent, progressive and pensionable and applications should be addressed to the Managing Director.

**Box No. 5091, "The Builder"**

**PERCY BILTON, Ltd.** (Housing Division). Required, SITE MANAGER (London based) to take control of private estate development of south coast and other areas. Applicants should be able to prepare and adhere to planned programme, negotiate with and control sub-contractors and produce a good standard of work.—Apply, giving full particulars of age, experience and salary required, to Building Manager, Bilton House, 54/58 Uxbridge-road, Ealing, W.5.

**ASSISTANT BUILDING MANAGER** Required by national Builders engaged primarily in Estate Development. This position, based in London, offers permanency and prospects. Group life and pension scheme. Car provided; 1961 holiday arrangements honoured.—Reply, giving details of experience, salary required, and when available, to Box 5332, "The Builder."

## CONTRACTS MANAGER

required Cardiff and District.
Medium size Firm expanding.

Age 35–45.

Must have good knowledge of cost control and planning.

Superannuation scheme. Car provided. State salary and experience, etc.

**Knox & Wells Ltd.**
**Bangor Street, Cardiff.**

## CLERKS OF WORKS

**ASSISTANT CLERK OF WORKS** Required for large project in London.—Write or telephone RONALD WARD & PARTNERS, 29 Cheshamplace, S.W.1. Tel.: BEL 3361.

**CLERK OF WORKS** Required for extensions to the Welwyn Garden City Council Offices. Work to commence approximately June of this year and to last for 12 to 18 months. Salary between £1,250 and £1,500 per annum, subject to experience and qualifications.—C. H. ELSOM & PARTNERS, VICtoria 4411.

**CLERK OF WORKS** Required now for large concrete framed office building near Central London. Duration of contract about 18 months. First-class man is needed with experience in this type of work. Write full details of experience, age and salary required.—Box 5172, "The Builder."

**APPLICATIONS** are invited for a CLERK OF WORKS to supervise new building work at the Harper Adams Agricultural College, Newport, Shropshire. The contract is expected to last 18 months to 2 years. Salary in the region of £1,100 will be related to experience and ability with board and lodging for a single man or a modernised cottage for a married man.—Apply giving full qualifications to HOLLAND W. HOBBISS & PARTNERS, Architects, 36 Waterloo-street, Birmingham, 2. CENtral 6139.

**CLERK OF WORKS (Assistant)** wanted for large building, Waterloo area. An engagement suitable for man desiring experience on large-scale works to work under Senior Clerks of Works.—Apply EASTON & ROBERTSON, CUSDIN, FRESTON AND SMITH, 53 Bedford-square, W.C.1.

**CLERK OF WORKS**, experienced in supervision of drainage and building works. Required on sites at Birmingham and Wolverhampton.—Applications stating age, detailed experience and salary required, to Box 5290, "The Builder."

**CLERK OF WORKS/AGENT** Required for private development, housing estate, Reading, and to assist on sales.—LAWSON & CO., 40 Brook-street, London, W.1. Tel: GRO 8446.

## BUYERS

**WANTED** immediately, ASSISTANT BUYER, with some experience, for Building and Civil Engineering firm. Good prospects, superannuation, five-day week.—Please write, stating age, experience and salary required, J. L. EVE CONSTRUCTION CO., 17 Hillside, Wimbledon, S.W.19.

**BUYER** for Building Contractors Required for office in High Wycombe.—Please reply to Box 5218, "The Builder," stating age, experience and salary required.

**EXPERIENCED BUILDERS' BUYER** Required, able to prepare material schedules and progress delivery of same to site.—Telephone: Emberbrook 4945 for an immediate appointment.

**EXPERIENCED BUYER** Required by Civil Engineering and Building Contractors. A head office appointment, near Reading, Berkshire. Permanent post with good salary and pension rights, etc., offered to keen and energetic man.—Write in first instance giving details of experience, past employers, etc., and age, in confidence, to Box 5329, "The Builder."

## EXPERIENCED BUYER

required for Contractors office. Surveyor trained preferred. Full details, including salary required, to:

**Box No. 5328, "The Builder"**

## REPRESENTATIVES

**LONDON BUILDERS' MERCHANTS** (light) Require REPRESENTATIVES for (a) North Kent/S.E. London, (b) S.W., W., and N.W. London, with active connections and live accounts in above areas. A commencing salary of £750 p.a. with commission, car, pension fund, etc., is available. Holidays honoured. Full details of experience, turnover, etc., will be treated in strict confidence.—Box 5291, "The Builder."

## AUSTINS OF EAST HAM LTD.
## Assistant Representatives

Many young men who have gained experience in the Building Trade and who possess initiative and drive feel that their ambitions can only be satisfied by making selling their career.

An appointment for Surrey is now offered to such young men, age 23–26, to join the sales organisation of Austins of East Ham, selling Standard Wood Windows, Doors and Kitchen Units.

After initial training at Head Office suitable candidates will be given outside experience.

Apply to Sales Director,
**2, Abbots Road, East Ham, London, E.6.**
giving details of education and career.

## BUILDING TRADE REPRESENTATIVE

A vacancy exists in the

WEST LONDON AREA

for an experienced Representative

Applications are invited from men within the age range 25/40 with initiative and the ability to sell. Excellent prospects exist for the right man in this expanding company. It is essential that the successful applicant has selling experience together with live contracts in all spheres of the building industry. A driving licence is essential.

Please apply in writing to:

Personnel Manager,
COMMERCIAL PLASTICS LTD.,
75, Grosvenor Street,
London, W.1

## AGENTS

with strong personal connections and capable of large turnover with

## Builders' Merchants and Stores

required for the following areas:

1. **London.**
2. **Midland Counties.**
3. **Yorkshire and Lincolnshire.**
4. **Lancashire and Cheshire.**

We are the manufacturers of a new range of Fitted Kitchen Units which has been accepted by the Council of Industrial Design. Good commission paid.

Write stating full details in confidence to the:

**Managing Director,**
**Box No. 5267, "The Builder"**

## BUILDERS' ASSISTANTS

**ASSISTANT** with knowledge of building, decoration and woodwork for West End design office. Must be competent draughtsman and able to estimate, interview clients and generally occupy position of responsibility. First-class prospects for someone with drive and ambition.—Box 5292, "The Builder."

## AGENTS

**FULLY EXPERIENCED SITE AGENTS** Required for new and varied building projects. Applicants must be cost and planning conscious, and experienced in the supervision of all trades and sub-contractors. Salary up to £1,500 per annum for the right men.—Write, giving details of age, experience, salary required, and preferred area of operation, to Box 5251, "The Builder."

**WHITTALL**

**have vacancies for**

# AGENTS

on contracts in the Midland area and other parts of the country. Applicants must have sound constructional knowledge and experience in the controlling of major contracts.

The posts carry good salaries commensurate with abilities and written application enclosed in an envelope marked "Confidential", should give details of age, training and career to:—

**W. J. WHITTALL & SON LTD.**
**Builders & Civil Engineers,**
**132, Lancaster Street,**
**Birmingham, 4**

## BUILDING AGENT—
## CONTRACT MANAGER

Substantial national building and civil engineering contractors require one or two men in thirty to early forties age group who could confidently undertake the duties of Site Agent on building contracts of the order of £1,000,000.

Necessary qualifications include technical training and wide experience; a successful record; energy, good health and willingness to put the job first; ability to manage; foresight.

Successful candidates would be appointed Agents on contracts, and after evidence of successful performance there would be opportunities of promotion to Contract Manager based on W. London office.

Commencing salary in range £1,500/£2,500, depending on the man. Pension.

There are excellent career opportunities for individuals who can make them so. All replies treated in absolute confidence. Please write to:

**Box No. 5066, "The Builder"**

## AGENT

required for large Contract in Hendon area. Experience in reinforced concrete work essential. Excellent prospects for right man with this progressive Company.

Apply, with full details of age, qualifications and experience to:

**The Secretary,**
**Tersons Ltd.,**
**Dollis Park, Finchley, N.3,**

quoting reference A.V.

# AGENT

required for attractive
Central London contract.

Multi-storey steel framed building, natural stone faced construction. Only first-class men with experience in this type of construction need apply in writing, stating age, experience and salary required to:

**W. J. SIMMS SONS & COOKE LTD.,**
**Sherwood House,**
**Beddington Lane,**
**Croydon, Surrey.**

## AGENTS AND GENERAL FOREMEN

Vacancies exist for senior and junior grades in the expanding Midland Branch of Wates Limited, Building and Civil Engineering Contractors. Permanent position, superannuation and bonus.

Applicants with experience and drive who wish to join a progressive organization with scope for advancement should apply giving full particulars to:—

The Manager,
WATES LIMITED,
94 Hagley Road,
Edgbaston, Birmingham 16.

## AGENT/GENERAL FOREMAN

Reliable civil engineer. Capable of supervising the construction of roads and sewers for Housing Estates. Must be mobile and conversant with taking off quantities, setting out and levelling.

Apply: Chief Engineer,
**E. J. WARNER & PARTNERS LTD.**
**Orchard House, Orchard Parade,**
**Potters Bar, Middx.**
Tel: POTTERS BAR (PR) 57121

A. A. STUART & SONS
(CONTRACTORS) LTD.
require immediately

# AGENT

This position, subject to satisfactory performance, is permanent and pensionable. Good salary and bonus.

Applications in writing to:—

**General Manager,**
**10 Upper Grosvenor Street, W.1**

**FIRST-CLASS AGENT** Required for large factory contract in Bristol. Applicants must be cost and planning conscious, experienced in the supervision of all trades and sub-contractors.—Write, giving details of age, experience, and salary required. Permanent, pensionable position. Salary up to £1,500.—Apply Box 5248, "The Builder."

**AGENT/GENERAL FOREMAN** Required. First-class opportunities for young man with initiative and drive. Opportunities of housing accommodation and top salary to right man.—Apply CLARK BROS., Stratton-road, Swindon, Wilts. Telephone: Swindon 3417.

## FOREMEN AND SUPERVISORS

**GENERAL FOREMAN** Required for contracts, Greater London area. Good prospects for first-class men with drive and initiative.—Full particulars, including salary, etc., to Box 916, "The Builder."

**GENERAL FOREMAN** Required, housing contracts, Alton and Newbury.—Apply, giving full particulars, DRURY CONSTRUCTION, Ltd., 4 Farncombe-road, Worthing.

**GENERAL FOREMEN** Required for schools, factories and other contracts in Berkshire and neighbouring counties. Only applicants with drive and proved ability considered. Excellent prospects and conditions for applicants looking for permanency.—Write, stating age, experience, etc., to Box 5101, "The Builder."

**CONTRACTS SUPERVISOR** Required for schools, factories and other contracts in Berkshire and neighbouring counties. This is a new post in expanding company and demands a man with drive and first-class organising abilities. As a senior appointment, top salary and benefits are offered with car provided.—Apply, stating age, experience, etc., to Box 5102, "The Builder."

**SENIOR GENERAL FOREMEN** Required for North of England and London area. Experienced in reinforcerd Concrete Multi-storey Construction. Good conditions, pension scheme operating.—Apply, in writing, giving details of experience to date to Box 5095, "The Builder."

**GENERAL FOREMEN** Required for contracts in London and Maidstone, Kent.—Apply RICHARDSON, Herbert House, Slade-green, Erith, Kent.

**EXPERIENCED WORKING FOREMAN** Required by North London Contractors, for conversion contracts and extensions. Carpenter by trade preferred but not essential. Only men with experience and drive with a sound knowledge of planning and cost consciousness need apply. Salary according to qualifications.—Apply Box 5170, "The Builder."

**GENERAL FOREMEN and SECTION FOREMEN** Required for Building and Civil Engineering Contracts in the North West area.—Apply: A. MONK & COMPANY, Ltd., Padgate, Warrington.

**GENERAL FOREMAN** Required for flat development schemes in the North London area. Previous experience of a similar nature essential.—Telephone: FINchley 6271, W. REED & CO., Ltd., for appointment.

**GENERAL FOREMAN** Required for medium-sized contract, N.W.9 district.—Apply: WES 0776 and 9505.

W. J. WHITTALL & SON
LIMITED
**Birmingham & London**
**have vacancies for**

# GENERAL FOREMEN

on contracts in the West and North-West London Area, who have sound constructional knowledge and are experienced in the speedy erection of industrial and other buildings.

The posts carry good salaries commensurate with abilities and a pension scheme is in operation.

Interviews can be arranged either in London or Birmingham, but initial written application enclosed in an envelope marked "General Foreman" should give details of age, training and career to:

**W. J. WHITTALL & SON LIMITED**

**Builders & Civil Engineers,**
**Ernest Gardens, Thames Road,**
**London, W.4.**

CUBITTS

# APPOINTMENTS

*— see pages 64 and 65*

## GENERAL FOREMEN

required for large Contracts in North West London. Experience in reinforced concrete work essential. Good prospects for right men, with excellent initial salaries.

Apply, with full details of age, qualifications and experience to:

**The Secretary,**
**Tersons Ltd.,**
**Dollis Park, Finchley, N.3,**
quoting reference A.V.

## GENERAL FOREMAN

REQUIRED IMMEDIATELY FOR £80,000 CITY CONTRACT. GOOD SALARY AND BONUS OFFERED FOR SUCCESSFUL COMPLETION OF CONTRACT. EXPERIENCE ON SITE ORGANIZATION AND R.C. FRAMED STRUCTURE.

**BOX No. 917, "THE BUILDER"**

**WALTER LILLY AND CO., LTD.**
**(Member of the Lovell Group)**
require

## BUILDING GENERAL FOREMEN

For interesting and varied contracts in London and the Home Counties.

Applicants must have experience in contracts up to £200,000 with sound knowledge of modern construction and methods.

Apply with particulars of age, experience and salary required to:—

**8, St. ANN'S Street,**
**S.W.1.**

## National Contractors

require

# SENIOR GENERAL FOREMAN

Initially for large contract in Aldershot area. The position offers good opportunity with rapidly expanding Company, is permanent and pensionable to successful applicant (C. & J. Preferred).

Experience, drive and ambition for promotion are the main qualifications.

Young assistant General Foremen who have had sound training will be given consideration.

Reply all particulars and salary required to—

**Box No. 5310, "The Builder"**

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An expanding department within a large firm of Building Contractors requires

# FOREMEN

**for work on Reinforced Concrete structures in the London area.**

Opportunities exist for enterprising men of experience, and permanent positions are offered with a salary of £20 per week together with additional incentives.
Apply stating age, previous experience, etc., to:

**Box No. 5296, "The Builder"**

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# TRAINEE GENERAL FOREMAN

required for Contracts in Surrey and Kent. Age 21—25.

Apprentice-trained.

Apply with full particulars to:

**Matthew James & Co. Limited**
**15, Thayer St., W.1**
Tel No.: WELbeck 0702

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## BOGNOR AND HASTINGS

# GENERAL FOREMEN

with experience of house developments required immediately. Capable of dealing with sub-contractors essential. Good salary paid for experienced man. Apply giving full details to—

**A. E. A. PROWTING LIMITED,**
**Bury Street,**
**Ruislip**

---

# GENERAL FOREMAN

required for Estate Development in Slough area. Fully experienced man. Full details to:

**Sloggetts (Contractors) Ltd.,**
**209 High Street,**
**Hampton Hill, Middlesex**

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**FOREMEN** Required immediately with experience in construction of reinforced concrete chimney shafts. —Please write, giving details, to Box 5186, "The Builder."

**GENERAL FOREMAN** Required for new school contract in Weybridge, Surrey. Must be capable of setting-out and running job from start to finish. Only men with drive and enthusiasm need apply. —Write stating age, experience and salary required, to MESSRS. E. & D. SIMMONS, Ltd., Britannia Works, Simplemarsh-road, Addlestone, Surrey.

**ASSISTANT** to General Foreman Required to fill permanent GENERAL FOREMAN'S post, after training, with contractors building residential property in the North London area. Applicants should have had craft experience in the industry and technical schooling.—Please apply, in writing, to MESSRS. DAY (CONTRACTORS), Ltd., 705 High-road, N.12, giving brief details of previous training, experience, age and salary expected.

**FIRST-CLASS GENERAL FOREMAN** Required, capable of handling contracts between £50,000 and £150,000, mostly in the East London and S.W. Essex areas.—Apply giving full details, including salary required, to Mr. G. Marney, MESSRS. A. E. SYMES, Ltd., Albert House, 236 High-street, Stratford, E.15.

**SENIOR GENERAL FOREMEN** Required by National Contractor for contracts situated in London and South of England. Applicants must be experienced in reinforced concrete construction. Only keen and ambitious foremen capable of earning good annual bonus by results need apply. Good conditions and pension scheme operating.—Apply in writing, giving details of experience to date, to Box 5269, "The Builder."

**FIRST-CLASS GENERAL FOREMAN** Required for large building contract in the Herefordshire area. —Apply stating age, experience and previous employers, to Box 1038, c/o MURRAY & PHELAN, Ltd., Columbia House, Aldwych, W.C.2.

**FIRST-CLASS GENERAL FOREMAN** Required for large building contract in the Oxfordshire area.—Apply stating age, experience and previous employers, to Box 1039, c/o MURRAY & PHELAN, Ltd., Columbia House, Aldwych, W.C.2.

**GENERAL FOREMAN** Required for office block development in West London. Good rates of pay and vehicle provided.—Apply in writing, J. A. STIRLING, Ltd., Fretherne Chambers, Welwyn Garden City, Herts.

**GENERAL FOREMAN** Required for large housing estate in the Stoke-on-Trent area. Permanent position for a keen, energetic man. Interviews can be arranged in either London or Stoke-on-Trent.—Write Mr. Moot, PERCY BILTON Ltd., 54-58 Uxbridge-road, London, W.5.

**GENERAL FOREMAN** Required for a large Bank job, carpenter and joiner by trade preferred.—Please send full particulars, including salary required, to H. H. & F. ROLL Ltd., 7 Ashley-road, Epsom.

**GENERAL FOREMAN** Required for travelling to supervise small contracts for alterations, etc. Driver essential. Carpenter and joiner by trade preferred.—Please send full particulars of salary required, etc., to H. H. & F. ROLL Ltd., 7 Ashley-road, Epsom.

**GENERAL FOREMAN** Required for supervision of small works. Car owner.—Apply stating age, experience and salary required, to Box 935, "The Builder."

**GENERAL FOREMAN** Required for estate work. Must be competent man.—Please write in first instance, stating age, experience and salary required, to Box 5293, "The Builder."

**GENERAL FOREMAN,** fully experienced, for contracts up to £45,000. Permanent position to right applicant.—SOOLE & SON, Ltd., Dunstable-road, Richmond, Surrey. RIC 0038.

**CONTRACTS SUPERVISOR** Required as Assistant to Contracts Director. Applicants should have good technical and supervisory experience, be interested in planning and of the 30/40 age group.—Apply, in writing, giving full details of previous experience, age and salary required, to the Managing Director, GALBRAITH BROS., Ltd., Crayford Bridge, Crayford, Kent.

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## General Foreman

# DUBLIN

**WATES & CO. LTD.,** have a vacancy in Dublin for a first-class General Foreman with private housing and roads and sewers experience.

Send details of age, experience, salary, and when available, to:

**Strandville Avenue,**
**Clontarf,**
**Dublin.**

---

# WRAIGHT LTD.,

Member of the R. D. Hope, Gibson, Kimber Group of Builders,

**require at their works**
**23 LONDON ROAD,**
**SITTINGBOURNE**
(Phone 2266/7/8)

## A BUILDING SUPERVISOR, BRICKLAYERS, CARPENTERS and JOINERS

for varied and interesting general building and contracting work. Excellent prospects to progress with this expanding group of companies.

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# FOREMEN

## TROLLOPE & COLLS LIMITED

have vacancies in their Reinforced Concrete Department for experienced FOREMEN.

Permanent posts are offered to the right men, with good salaries and considerable future prospects.

Applications, giving fullest particulars of past experience, should be addressed to:

**The Assistant Secretary,**
**Trollope & Colls Ltd.,**
**1, Noble Street,**
**Gresham Street, London, E.C.2.**

**WILLIAM COWLIN & SON, LTD.**

Require

first-class

## GENERAL FOREMAN

to be based in Bristol area. Must be capable of controlling a large building contract and co-ordinating all specialist sub-trades. Knowledge of reinforced concrete and heavy foundation work essential. Position is permanent and pensionable.—Apply, stating age, previous experience and salary required, to **Stratton-street, Bristol 2.**

**T. G. CONSTRUCTION CO. LTD.**

a member of

**The Tarmac Group**

require

## BUILDING GENERAL FOREMEN

who must be planning conscious, and able to run contracts to a strict time schedule on new contracts within the Midland area. Positions offer first-class conditions and opportunity for men of enthusiasm and ability, who are interested in advancement and promotion. Salary according to experience. Write in first instance, giving particulars to:

**The Personnel Officer,**
**TARMAC CIVIL ENGINEERING LTD.,**
**Ettingshall,**
**Wolverhampton**

**E. S. GATES LIMITED**

**invite applications from**

## GENERAL FOREMEN

**for interesting contracts in Hemel Hempstead and Barnet**

Permanent positions with progressive Company.

Apply in writing giving full details to—

**E. S. GATES LTD.,**
**CHALFONT STATION ROAD,**
**AMERSHAM**

A. A. STUART & SONS (CONTRACTORS) LTD.

require immediately

## GENERAL FOREMAN

This position, subject to satisfactory performance, is permanent and pensionable. Good salary and bonus.

Applications in writing to:—

**General Manager,**
**10 Upper Grosvenor Street, W.1**

## CARPENTERS AND JOINERS

**JOINER** with thorough knowledge of the trade required to take charge of small, newly equipped with modern machines, Joiners' shop for medium-size Contractors. Knowledge of estimating an advantage.—Write stating age, experience and salary to Box 927, "The Builder."

Sound practical man, preferably Carpenter by trade to act as

## SUPERVISOR

of medium-sized Contracts. Knowledge of Shopfitting an advantage. Good prospects for right man who can produce results. Please write giving full particulars, references and salary required to:

**Box No. 5302, "The Builder"**

## CLERKS

**GOOD OPPORTUNITY** for keen Builders' COST CLERK, with few years good-class experience, to join young enthusiastic team in old-established but expanding organisation. Suitable for man aged 26-30.—Fullest details and salary, in confidence, to Secretary, W. H. GAZE & SONS, Ltd., 19/23 High-street, Kingston-on-Thames.

**BUILDERS' CLERK.** Good opportunity for first-class man.—Fullest details and salary, in confidence, to Secretary, W. H. GAZE & SONS, Ltd., 19/23 High-street, Kingston-on-Thames.

**SURVEYOR'S CLERK** Required to deal with increased costs, dayworks and take general control of Junior Surveyors. Older man not objected to. Good salary and working conditions, leading to a permanent and pensionable post for the right man. —Write, in first instance, to Chief Surveyor, A. E. SYMES, Ltd., 236-252, High-street, Stratford, E.15.

**SITE CLERKS** Required in the provinces. Knowledge of Wages, P.A.Y.E., and W.R.A. essential. Graded salaries. Superannuation after trial period.—Applications to Internal Auditor, TERSONS, Ltd., Dollis Park, Finchley, London, N.3.

**ACCOUNTS CLERK** for medium-sized Building Contractors. Post of senior responsibility for man with experience with contracting and jobbing accounts. Established firm, offices Walton-on-Thames, Surrey. Applicants to state age and experience.—Apply Box 5208, "The Builder."

**BUILDERS' ORDER/COST CLERK Required immediately. Permanent position with established firm, at salary commensurate with experience offered. —H. J. & A. WRIGHT, Ltd., Great Missenden, Bucks.**

**AN OPPORTUNITY** for a young man, aged 18/19, who has an aptitude for figures, for the position of ASSISTANT in Measuring and Cost Department of Wall & Floor Tiling Specialists.—Applications, in writing, to Mr. L. E. Pull, A. H. HERBERT & CO., Ltd., 154 Blackhorse-road, Walthamstow, E.17.

**CLERK** Required for property office in large multiple company (male or female). Experienced in building, maintenance or estate work an advantage. Should have initiative and be able to deal with orders, invoices, etc. Ability to type an advantage but not essential. Five-day week, sickness benefits, superannuation scheme, etc.—Please apply, giving details of age, previous experience and salary required, to Personnel Office, LILLEY & SKINNER, Ltd., 206 Pentonville-road, King's Cross, N.1. Convenient for travel from all parts.

**FULL-TIME** and part-time experienced STENCIL TYPIST Required for Quantity Surveyor's office in City.—Please reply stating age, experience, hours available and salary required, to Box 5275, "The Builder."

**SHORTHAND TYPIST,** with knowledge of Book-keeping, Required for Quantity Surveyor's office near Cannon-street.—Please reply stating age, experience, education and salary required, to Box 5276, "The Builder."

**BUILDER'S COST CLERK.** State age, experience and salary required.—C. NEAL & SON, Ltd., West Horsley, Surrey. (Tel.: East Horsley 4255/56.)

**ESTIMATING CLERK** Required for Building Department.—Apply C. H. STIDWORTHY, Ltd., Battledown Works, Hales-road, Cheltenham.

**CLERK** Required for costing and general office routine. Good opportunity for suitable man.—Apply, stating experience and salary required, to GEO. J. ARTHUR & SONS, Ltd., Builders, 11 High-street, Dorking.

**WAGES CLERK,** fully experienced in P.A.Y.E., Required in Building Contractors' office. If applicant has book-keeping experience, this position can be progressive and pensionable.—Telephone: CAN 2476.

**BUILDER'S CLERK** Required by Surveyors for supervision of maintenance, repairs, etc.—Apply in writing BASIL & HOWARD SAMUEL, 97 Mortimer-street, W.1.

## MISCELLANEOUS

**TIMEKEEPERS.** Leading firm of London Contractors have vacancies for TIMEKEEPERS, preferably resident in the London area, and who have good experience in the Building and Civil Engineering industry. Permanent appointments with participation in bonus and superannuation schemes.—Applications should give full particulars of age, past employments with dates, and salary required, to Box TL.5151, A.K. ADVTG., 212a Shaftesbury-avenue, London, W.C.2.

## OVERSEAS APPOINTMENTS

**Prepaid rate, 24 words, 8/6; additional 6 words, 2/-. Box number, including Forwarding Replies, 2/-.**

**QUANTITY SURVEYORS Require qualified men for offices in Sydney and Perth, Australia.—Write, stating age, experience and salary required. Box 919, "The Builder."**

**KEEN,** energetic, young CHARTERED QUANTITY SURVEYOR Required for responsible position in West Africa. Free travel, free accommodation, generous allowances and leave. Bonus on successful completion of tour.—Apply, stating salary required, age, whether married and when available, to Box 5221, "The Builder."

## QUANTITY SURVEYOR

with estimating experience and an interest in site organisation required to work in

**Mauritius**

for an expanding Building Contracting Co. Passages paid, free furnished house, car with allowance, good salary, other conditions to be discussed at interview with Director in London. Write in first instance giving age, qualifications and experience to:—

**Box No. 5233 "The Builder"**

## THE WILLETT GROUP OF COMPANIES

**require**

**ACCOUNTANT** to take full responsibility under the Group Accountant for all accountancy and costing for the Contracting, Decorating and Joinery companies.

**COST CLERK** for the Contracting Company, for the analysis and finalisation of contract costs with minimum of supervision.

**WAGES CLERK** with knowledge and experience of Building Trade Wage routine.

Please write giving full details of age, experience and salary required to:

**The Group Accountant, William Willett Ltd.,**
**Sloane Square, S.W.1**

## *Vigorous, fit executive*

of 53 years requires post offering Trust and Responsibility overseas. 30 years' experience, covering Near and Middle East, S. America, West Africa. Trained Contractors' Quantity Surveyor. First-class estimator. Costs. Progressing. Site organizing. Educated, personality. Negotiator. Wide Commercial and PWD experience. Wife to accompany. No children. Salary by arrangement. Own transport. Interviews late afternoons. Or would consider Senior position with progressive firm U.K. (Home Counties) desirous of expanding. Pension scheme appreciated. Write, in confidence, to:

**Box No. 5352, "The Builder"**

QUANTITY

## SURVEYOR

aged 27–30, required for short tours in the Middle East or East Africa. Bachelor accommodation, Fares, Food, provided free. Reply, giving brief particulars, salary required to:

**Box No. 5333, "The Builder"**

## Suspended Ceilings

A young trainee

## DRAUGHTSMAN or SURVEYOR

who wishes to increase his interest and has perhaps some experience with metal fixing systems for forming suspended ceilings, etc., is urgently needed by an international organisation manufacturing building materials.

In addition to the preparation of layout drawings and taking off of all necessary quantities, the successful applicant will also be trained in general sales procedure with particular emphasis on the export market and ultimately as a representative.

This unique opportunity is open to an ambitious young man between the ages of 22 and 30, who is well-educated, physically fit and resides in or near London. The position is permanent and progressive with an expanding Company which is already the largest of its kind in the world.

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A.C.E. Machinery, Ld. ... 50
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Airscrew Co. & Jicwood, Ld. ... 138
Allied Brick & Tile Works, Ld. ... 61
Allied Ironfounders, Ld. ... 66-67
Allied Rubber Products & Eng. Co., Ld. ... 142
Anderson, C. F., & Son, Ld. ... 102
Armstrong Cork Co., Ld. ... 42
Assoc. of Vermiculite Exfoliators ... 90
Atlas Asbestos Cement Co., Ld. ... 88A
Austins of East Ham, Ld. ... 139

Barron & Shepherd, Ld. ... 116
Batley, E., Ld. ... 112
Batty, F., & Smith, Ld. ... 166
Bell & Webster, Ld. ... *882*
Bendz, Ld. ... 72
Berry Wiggins & Co., Ld. ... 57
Blackburns (London), Ld. ... 139
Bolton Gate Co., Ld. ... 114
Bowmaker (Plant), Ld. ... 103
Boyle, R., & Son ... 127
Brades Nash Tyzack, Ld. ... 140
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British Art Tile Co., Ld. ... 127
British Ceramic Tile Council ... 39
British Equipment Co., Ld. ... 59
British Institute of Engineering Technology ... 147
British Plaster Board (Mfg.), Ld. ... 29
British Rein. Con. Eng. Co., Ld. *Inside Back Cover*
Broad & Co., Ld. ... 87
Brown, N. C., Ld. ... 132
Bryce White & Co., Ld. ... 96

Contracts ... 99
C. & M. Engineering Co., Ld. ... 127
C. & R. Constructions, Ld. ... 131
C. & S. Construction Co., Ld. ... 126
Cafferata Co., Ld. ... 12
Canal Joinery & Moulding Co., Ld. ... 123
Camberwell Eng. ... 144
Campbell-Gray, Ld. ... 141
Caswell Cranes & Erection, Ld. ... 143
Cayless Bros. ... 142
Cementation Co., Ld. ... 17
Cement Marketing Co., Ld. ... 13
Chalmer, E., Ld. ... 109
Chamberlain Plant, Ld. ... 119
Chimneys, Ld. ... 121
City Calculations, Ld. ... 164
Clark, Hunt & Co., Ld. ... 59
Clifton, I., & Sons, Ld. ... 143
Cloke, Geo. E., Ld. ... 122
Colt Ventilation, Ld. ... 33
Colt, W. H. (London), Ld. ... 51
Compression Joints, Ld. ... 16
Conder Engineering Co., Ld. ... 93
Contractors' Services, Ld. ... 144
Cook, A. V., & Co., Ld. ... 124
Copperad, Ld. ... 86
Cox, H., & Sons, Ld. ... 145
Cox, P., & Partners, Ld. ... 63
Crane, Ld. ... 19

Damp-proofing, Ld. ... 128
Danckaerts Woodworking Machinery, Ld. ... 166
Dandridge, A. F., Ld. ... 144
Delta (Plant), Ld. ... 40
Dexion, Ld. ... 28
Dinorwic Slate Quarries, Ld. ... 102
Dreadnought Fireproof Doors (1930), Ld. ... 112
Drynamels, Ld. ... 25
Duresco Products, Ld. ... 58
Dussek Bitumen & Taroleum, Ld. ... 44
Dutton, L., & Sons ... 124

Ebner, Jos. F. (1953), Ld. ... 95
Econa Modern Products, Ld. ... 31
Eidelman, J. ... 113
Elgood, E. J., Ld. ... 38-122-123
English Joinery Manufacturers Assoc. (Inc.) ... 36
Essex Steel Scaffolding Co., Ld. ... *882*

Evode, Ld. ... 3
Excel Asphalte Co., Ld. ... 80-121
Expandite, Ld. ... 121-122-123-145

Fablon, Ld. ... 83
Faculty of Architects and Surveyors ... 60
Falkus Bros., Ld. ... 78
Farmer, S. W., & Son, Ld. ... 73
Farrar, E., Ld. ... 124
FEB (Great Britain), Ld. ... 7-9
Federation of Master Builders ... *882*
Finlock Gutters, Ld. ... 130
Flamingo Foam, Ld. ... *Back Cover*
Fluid Glass Products, Ld. ... 123
Forsters of Hounslow ... 60
Furniss & Co. ... 114

GEM Electrical Division ... 60
GKN Reinforcements, Ld. ... 89
Gliksten Doors, Ld. ... 115
Goddard & Gibbs ... 146
Goodlass, Wall & Co., Ld. ... 69
Gotham Group of Companies ... 88B
Gough & Co. (Hanley), Ld. ... 133
Greenwich Pump & Plant Co., Ld. ... 143-144
Gyproc Products, Ld. ... 56
Gypsum Mines, Ld. ... 130

Hall, J. & E., Ld. ... 22
Harford Pumps, Ld. ... 79
Haywards, Ld. ... 68
Hedley, T., & Co., Ld. ... 81
Henderson, P. C., Ld. ... 85
Higgs & Hill, Ld. ... 15
Holland & Hannen and Cubitts, Ld. ... 64-65-77
Hough Brothers, Ld. ... 123
Housden, G. & H. ... 146
Hy-Rib Division, Truscon, Ld. ... 125

Ideal Boilers & Radiators, Ld. ... 35
Imperial Aluminium Co., Ld. ... 24
Imperial Chemical Industries, Ld. ... 135
International Correspondence Schools ... 147

Jablo Plastics Industries, Ld. ... 132
James Joinery ... 145
Johnson, C. H. (Machinery), Ld. ... 70
Johnson's Rein. Con. Eng. Co., Ld. ... 62

Kay & Co. (Engs.), Ld. ... 120
Kelseal, Ld. ... 126
Kenwood Mfg. (Woking), Ld. ... 26-27
Kerner-Greenwood & Co., Ld. ... 74
King, Geo. W., Ld. ... 64
King, J. A., & Co., Ld. ... 118
Kitson's Insulations, Ld. ... 117
Kittridge Flooring, Ld. ... 146
Kleine Co., Ld. ... 104

Latex Upholstery, Ld. ... 117
Leach, H. C., Ld. ... 141
Leggott, W. & R., Ld. ... 146
Lenscrete, Ld. ... 37
Lester, A. S., Ld. ... 129
Lewis, F. J., Ld. ... 146
Lillington, G., & Co., Ld. ... 18-101-128
Lilly, W., & Co., Ld. ... 61
Lind, P., & Co., Ld. ... 136
Liner Concrete Machinery Co., Ld. ... 49-140
Liquitile Supply Co., Ld. ... 45
Lockwood, R. W. ... 145
London & Midland Steel Scaffolding Co., Ld. ... 6
London Brick Co., Ld. ... *Cover*
London Crystal ... 123
London Flooring Co. ... 124
London Sand Blast Dec. Glass Works, Ld. ... 107
Low, J. F., & Co., Ld. ... 30
Lusty, W., & Sons, Ld. ... 88
Luxfer, Ld. ... 125

Macnamara, J., & Co., Ld. ... 143-144
Manger, J., & Son ... 115
Marley Concrete, Ld. ... 144
Marley Tile Co., Ld. ... 98
Martyn, B., Ld. ... 123
McLaughlin & Harvey, Ld. ... 75
Melliar-Smith & Co., Ld. ... 141
Middlesex Prefabricated Bldgs., Ld. ... 143
Minnesota Mining & Mfg. Co., Ld. ... 94
Modern Tile & Floor Co., Ld. ... 122
Moffets, Ld. ... 97
Moore's Plant, Ld. ... 144-145

M.S.J. Fencing Contractors ... 122
Mullen & Lumsden, Ld. ... 76

Nelson & Co. (Joinery), Ld. ... 145
New Stone & Restoration, Ld. ... 126
Newtonite, Ld. ... 120
Nicoll, Dawson & Humphries, Ld. ... 121-125-143
Northarc Organisation ... 127
Nu-Way Heating Plants, Ld. ... *880*

Odoni, A. A., & Co., Ld. ... 119
Orlit, Ld. ... 126
Ornamental Gate Co. ... 62

Palmers Tr. Cradle & Scaff. Co., Ld. 84-121-125-127
Paragon Glazing Co., Ld. ... 131
Paramount Asphalte, Ld. ... 121
Parsons, W. G., & Sons ... 121
Peel, H., Ld. ... 59
Permafence, Ld. ... 80
Permanite, Ld. ... 91
Pharaoh's Plywood Co., Ld. ... 43
Pitch Fibre Pipe Association ... 11
Plant Engineering Services (Exeter), Ld. ... 145
Plastics & Resins, Ld. ... 46
Podmore Works, Ld. ... 142
Portable Concrete Buildings, Ld. ... 133
Potter Rax, Ld. ... 41

Radiation Parkray, Ld. ... 137
Ramset Fasteners, Ld. ... 34
Rekab Instruments, Ld. ... 139
Remploy, Ld. ... 71
Richardson, P. C., & Co. (Middlesbro'), Ld. ... 121
Richardson, W., & Co., Ld. ... 73
R.I.W. Protective Prods. Co., Ld. ... 96
Reid, J., & Sons, Ld. ... 123
Ruberoid Co., Ld. ... 48

Salter, Edwards & Co., Ld. ... 121
Sanders, M., Ld. ... 143
Seaboard Lumber Sales Co., Ld. ... 53
Sealocrete Products, Ld. ... 10-21
Security Scaffolds, Ld. ... 126
Secomastic, Ld. ... 123
Shapland & Petter, Ld. ... 124
Shires & Co. (London), Ld. ... 14
Simpson, A. F., Ld. ... 142
Singleton, Flint & Co., Ld. ... 142
Skinner, W. A., & Co., Ld. ... 122
Sloggetts (Joinery) ... 145
Sloggetts (Plant Hire) ... 145
Smith, H. V., & Co., Ld. ... 121
Southern Forge, Ld. ... 82
Spencer, Lock & Co., Ld. ... *879*
Standard Range & Foundry Co., Ld. ... 2
Stella Building Products, Ld. ... 52
Stephens & Carter, Ld. ... 87-121-124-125-145
Stic B Paint Sales, Ld. ... *881*
Stramit Boards, Ld. ... 4
Sugg, W., & Co., Ld. ... 72
Sutcliffe, F. & H., Ld. ... 139
Swale Chemicals, Ld. ... 20
Swedish Perstorp ... 8
Symes (Plant), Ld. ... 144

Templex Holdings Ld. ... 62
Thornton, W., & Sons, Ld. ... 123
Tibbetts, W., & Sons, Ld. ... 118
Tower Cranes, Ld. ... 63
Travis & Arnold, Ld. ... 23
Tretol, Ld. ... 5
Trianco, Ld. ... 16
Tunnel Portland Cement ... 92

Uni-Tubes, Ld. ... 32

Vales Plant Register, Ld. ... 125
Vulcanite, Ld. ... 70

Walley (Thurrock), Ld. ... 124
Weil, J., & Son, Ld. ... 116
Williams & Williams, Ld. ... 54-55
Wilmerlea, Ld. ... 129
Woolliscroft, G., & Son, Ld. ... 134
Wood Preservation, Ld. ... 47
Wyckham Blackwell, Ld. ... 142

Youngman, W. C., Ld. ... 143
Youngs of Orpington ... 122

Zeta Wood Flooring Co. (1910), Ld. ... 128


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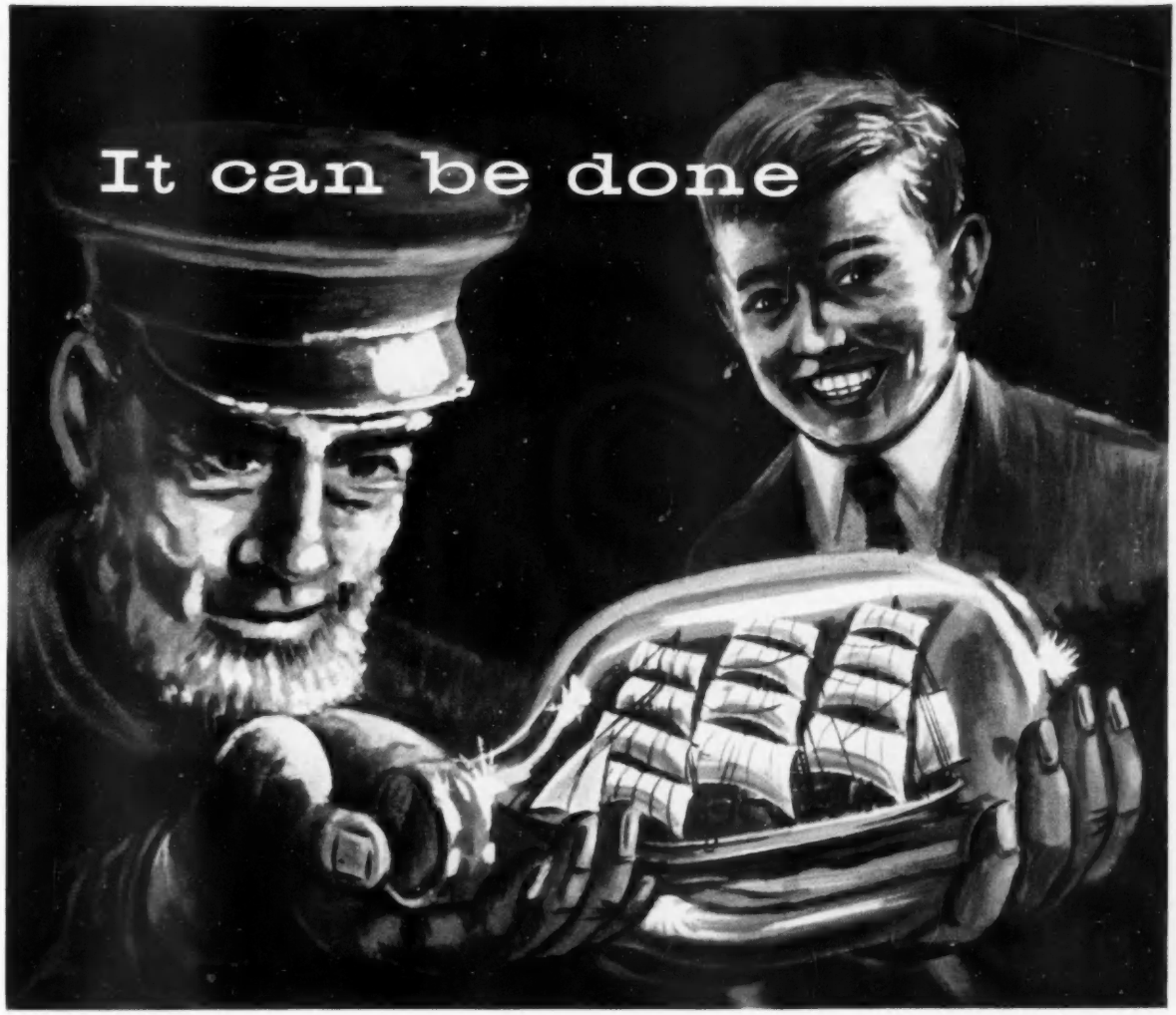


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